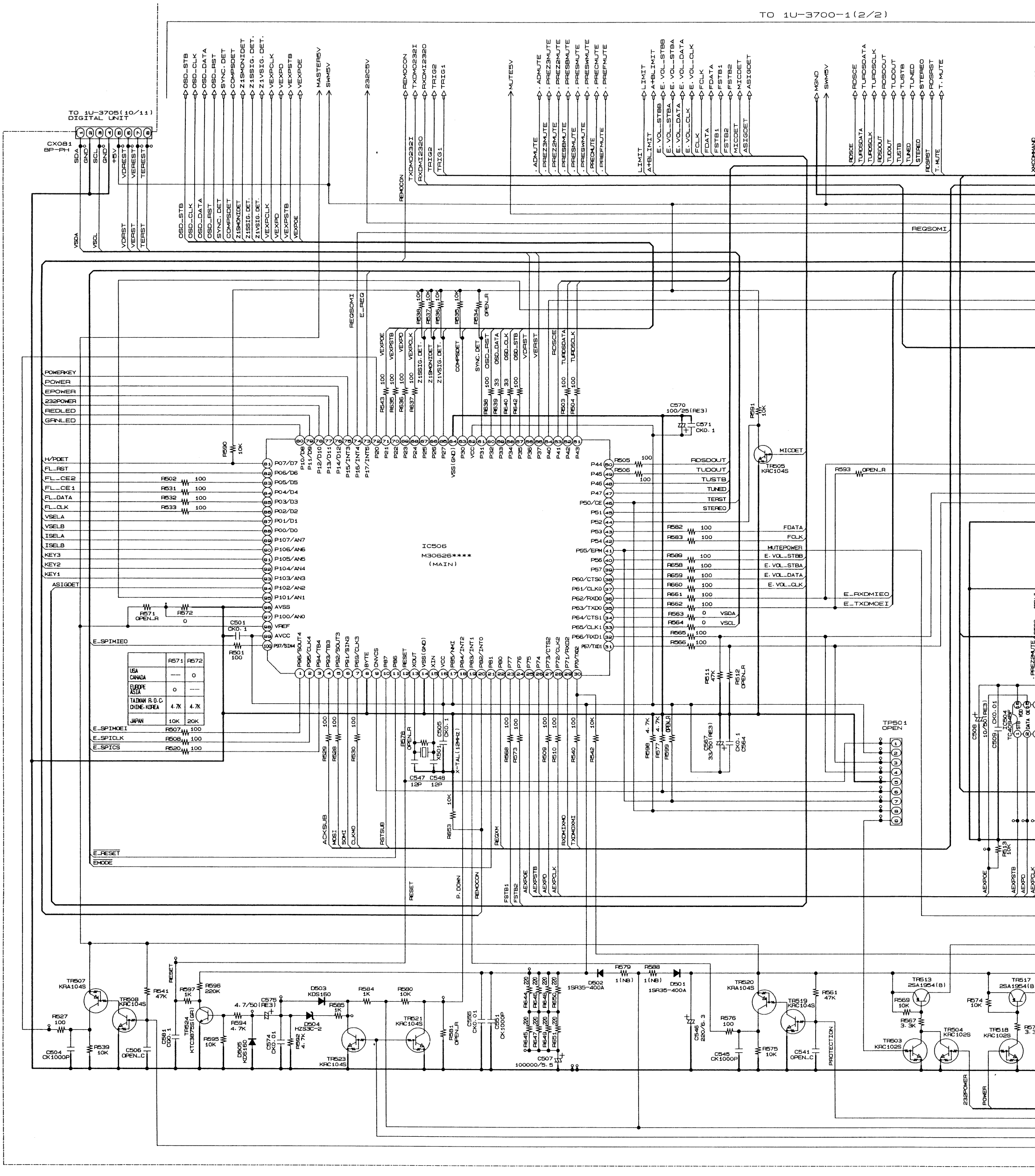
SCHALTBILD

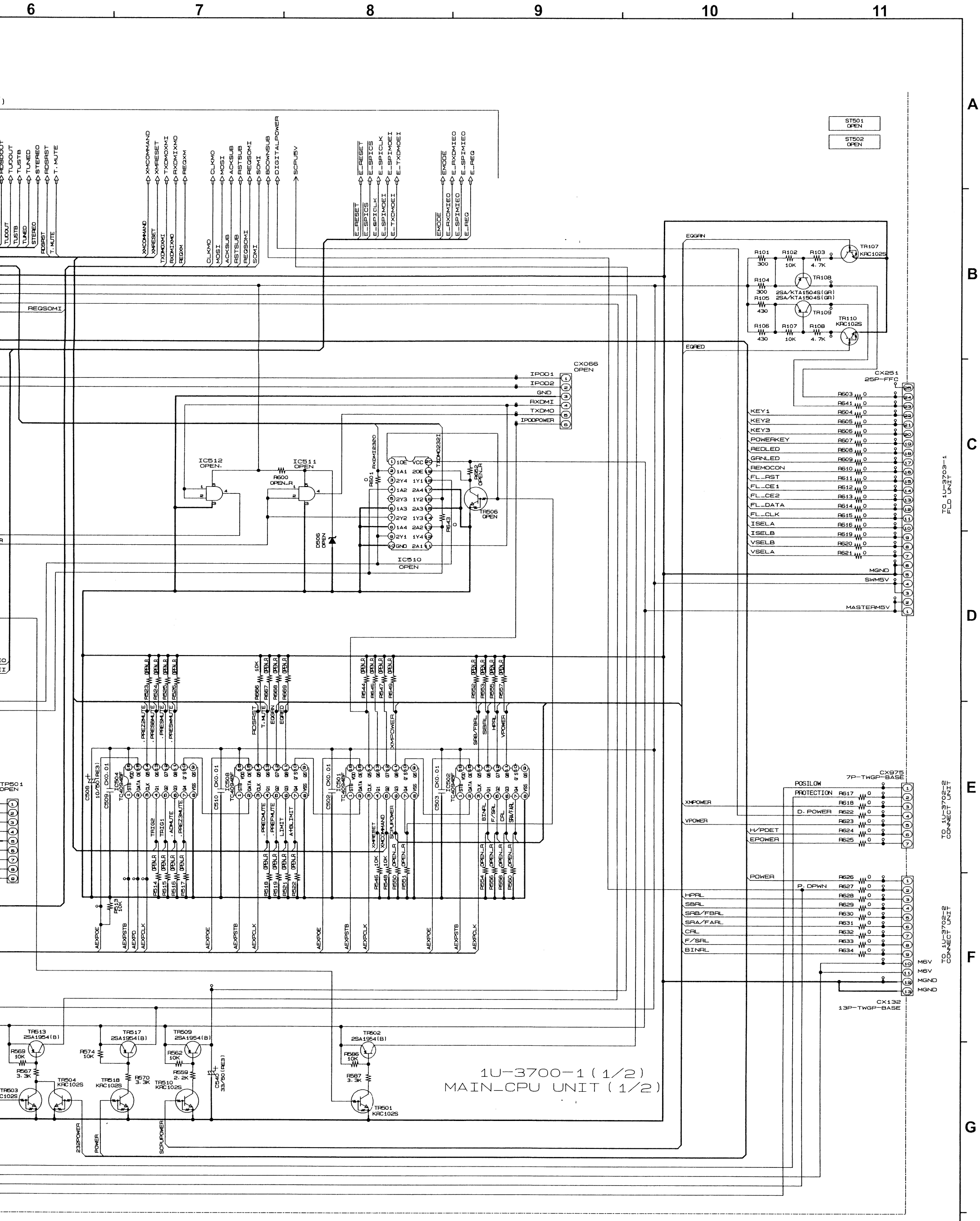
DENON

AVR3806

SCHEMATIC DIAGRAMS (1/31)

1 2 3 4 5 6





SCHEMATIC DIAGRAMS (1/31)

1U-3700-1 MAIN CPU UNIT (1/2)

1 2 3 4 5 6 7

1U-3700-1(2/2)
MAIN_CPU UNIT(2/2)

TO AUDIO
1U-3704-1

TO DIGITAL IN
1U-3700-2

TO 232C UNIT
1U-3703-13

VIDEO

TO PREOUT
1U-3700-3

TO 1U-3704-1(1/4) AUDIO UNIT
CX951 5P-TUCP-BASE
TUNER_GND
TUNER_L
TUNER_GND
TUNER_R
TUNER_GND

CX161 16P-TUCP-BASE
+15V
TUNER_L
TUNER_GND
TUNER_R
MGND
SWM5V
T.MUTE
RDSRST
RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TO 1U-3700-2 DIGITAL IN UNIT
AVR-MODEL ONLY

CX967 6P-TUCP-BASE
D.IN
ZONE2
ZONE3
DREC
DGND
D3.3V
TO 1U-3700-2 DIGITAL IN UNIT

CX114 11P-TUCP-BASE
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
Z3INH

CW912 11P-JE-BASE
TO 1U-3703-13 232C UNIT
PHONOR
PHONOL
CDR
CDL

CX115 11P-TUCP-BASE
TO 1U-3704-1(1/4) AUDIO UNIT

CW913 11P-JE-BASE
TO 1U-3703-13 232C UNIT
TRIG2
TRIG1
TRIG12V
REMOCON
RXDMI2320
TXDMO232I
MGND
MGND
MASTER5V
+5V232

CX133 13P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DASBRSWMUTE
DASBLCMUTE
DAFRSRMUTE
DASLFLMUTE
ADGND
ADINR
ADGND
ADINL
ADGND
A-15V
A-15V
A+15V
A+15V

CX154 15P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DASBR
DA-AGND
DASW
DA-AGND
DAC
DA-AGND
DASBL
DA-AGND
DASR
DA-AGND
DAFR
DA-AGND
DAFL
DA-AGND
DASL

CX116 11P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DAZ3R
DAZ3L
DAZ2R
DAZ2L
DAZ2MUTE
DAZ3MUTE

CX141 14P-TUCP-BASE
TO 1U-3700-3 EXT IN/PREOUT UNIT
HIGH+B(MUTE)
MUTE5V
MUTEGND
.ADMUTE
.PREZ3MUTE
.PREZ2MUTE
.PRESBMUTE
PRESMUTE
.PRESWMUTE
.PRECMUTE
PREFMUTE
ADMUTE
-15V

CX162 16P-TUCP-BASE
TO 1U-3704-1(3/4) AUDIO UNIT
HIGH+B(MUTE)
PRECPUGND
PRECPUGND
LIMIT
A+BLIMIT
E.VOL_STBB
E.VOL_STBA
E.VOL_DATA
E.VOL_CLK
FCLK
FDATA
FSTB1
FSTB2
ADMUTE
MICDET
ASIGDET

CY931 OPEN
IPODSC
IPODGND
IPODSY

CX252 25P-FFC
TO 1U-3704-6 S_VIDEO UNIT
IPODSY
IPODGND
IPODSC
IPODGND
OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
SYNC.DET
COMPSDET
Z1SMONIDET
Z1SSIG.DET.
Z1VSIG.DET.
VEXPCLK
VEXPD
VEXPSTB
VEXPOE
VM+5V
VMGND
VAUXV
VGND
VAUXSY
VGND
VAUXSC

5P-PH CW052
TO 1U-700-4 PRE CONNECT2 UNIT
VAUXSC
VGND
VAUXSY
VGND
VAUXV

OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
SYNC.DET
COMPSDET
Z1SMONIDET
Z1SSIG.DET.
Z1VSIG.DET.
VEXPCLK
VEXPD
VEXPSTB
VEXPOE
MASTER5V
SWM5V
232C5V
REMOCON
TXDMO232I
RXDMI2320
TRIG2
TRIG1
MUTE5V
.ADMUTE
.PREZ3MUTE
.PREZ2MUTE
.PRESBMUTE
.PRESMUTE
.PRESWMUTE
.PRECMUTE
.PREFMUTE
LIMIT
A+BLIMIT
E.VOL_STBB
E.VOL_STBA
E.VOL_DATA
E.VOL_CLK
FCLK
FDATA
FSTB1
FSTB2
MICDET
ASIGDET
MGND
SWM5V
T.MUTE
RDSRST
RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
CLKMO
MOSI
ACKSUB
RSTSUB

TO 1U-3700-1(1/2)

7 8 9 10 11

A B C D E F G H

TO DIGITAL IN
1U-3700-2

TO DIGITAL UNIT
1U-3705

TO D.LINK
1U-3704-2

CX161
16P-TUCP-BASE
+15V
TUNER_L
TUNER_GND
TUNER_R
MGND
SWM5V
MUTE
SRST
SCE
RDSDATA
RDSCLK
RDSOUT
TUDOUT
TUSTB
TUNED
STEREO
TO 1U-3700-2 DIGITAL IN UNIT
AVR_MODEL ONLY

CX911
11P-PIN-HEADER(9120)
TO 1U-3705(2/11) DIGITAL UNIT
DLINK_ON
DL1
DL2
DL3
DLACK.
CX117
11P-TUCP-BASE
TO 1U-3704-2 D.LINK UNIT

CX967
6P-TUCP-BASE
D. IN
ZONE2
ZONE3
DREC
DGND
D3.3V
CX968
6P-PIN-HEADER(9120)
TO 1U-3700-2 DIGITAL IN UNIT
TO 1U-3705(2/11) DIGITAL UNIT

DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
Z3INH
CX112
11P-PIN-HEADER(9120)
CX114
11P-TUCP-BASE

CX118
11P-TUCP-BASE
E_TXDMOEI
E_RXDMIEO
E_REQ
E_SPIMOEI
E_SPIMIEO
E_SPICLK
EMODE
E_SPICS
E_RESET
MASTER5V
MGND

CX137
13P-PIN-HEADER(9120)
DASBRSWMUTE
DASBLCMUTE
DAFRSAMUTE
DASLFLMUTE
ADGND
ADINR
ADGND
ADINL
ADGND
A-15V
A-15V
A+15V
A+15V
TO 1U-3705(6/11) DIGITAL UNIT

CX159
15P-PIN-HEADER(9120)
DASBR
DA-AGND
DASW
DA-AGND
DAC
DA-AGND
DASBL
DA-AGND
DASR
DA-AGND
DAFR
DA-AGND
DAFL
DA-AGND
DASL
TO 1U-3705(6/11) DIGITAL UNIT

CX113
11P-PIN-HEADER(9120)
DAZ3R
DAZ3L
DAZ2R
DAZ2L
DAZ2MUTE
DAZ3MUTE
TO 1U-3705(7/11) DIGITAL UNIT

CX777
OPEN
CX976
7P-PIN-HEADER(9120)
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
MGND
TO 1U-3705(5/11) DIGITAL UNIT
CLKMO
MOSI
ACKSUB
RSTSUB
BDOWNSUB
REQSOMI
SOMI
DIGITALPOWER
SCPU5V
MGND
CX101
10P-PIN-HEADER(9120)

CX031
3P-PH(RD)
TRIGGER+12V
TRIGGERGND
TO 1U-3702-1 P.SUPPLY UNIT

RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
CLKMO
MOSI
ACKSUB
RSTSUB
BDOWNSUB
REQSOMI
SOMI
DIGITALPOWER
SCPU5V
E_RESET
E_SPICS
E_SPICLK
E_SPIMOEI
E_TXDMOEI
EMODE
E_RXDMIEO
E_SPIMIEO
E_REQ

DENON ORIGINAL ERSATZTEILE / ORIGINAL SPAREPARTS

Lagerort / Warehouse Location	Lieferschein Nr. / Delivery Note No.
E014I06B	0250375608
Menge / Quantity: 1	
Ihre Ref. Nr. / Your Ref. No.	Datum / Date
054395300	28.02.2006

Artikel / Article
SCHEMATIC DIAGRAM AVR3806
SMAVR3806

DENO -00418

SCHEMATIC DIAGRAMS (2/31)

1U-3700-2 MAIN CPU UNIT (2/2)

1 2 3 4 5 6

1U-3700-2
DIGITAL_IN UNIT

TO 1U-3700-4
PRE CONNECT2 UNIT

D3.3V DGND OPT5

CX033
3P-PH(RD)

OPTICAL INPUT

OPT-1
IC907
TORX142(F)

OPT-2
IC908
TORX142(F)

OPT-3
IC909
TORX142(F)

OPT-4
IC910
TORX142(F)

VCC GND OUT

C912 33/50(RE3)
C913 33/50(RE3)
C914 CK0.1
C915 CK0.1
C916 CK0.1
C917 CK0.1

C920 4.7/50(RE3)
C921 4.7/50(RE3)
C922 4.7/50(RE3)
C923 4.7/50(RE3)
C926 4.7/50(RE3)

R917 22K
R921 47K
R918 22K
R922 47K
R919 22K
R923 47K
R920 22K
R924 47K
R925 22K
R926 47K

C911 33/50(RE3)
C909 CK0.1
C910 CK0.1

IC903
TC74VHCU04F

IC904
TC74VHC14F

R913 100
R915 100
R916 100
R929 100
R914 100

O1 O2 O5 O4 O3

ZONE 1

C907 CK0.1
IC906
TC74HC151AF

O5 C2 C1 O4 O3 O2 O1
DINA. DINB. DINC.

R931 100
R932 100

OPT-3
TOTX142(F)
IC911

RECOUT

OPT-4
TOTX142(F)
IC912

IN VCC GND

C925 CK0.1
C924 CK0.1
R934

C918 4.7/50(RE3)
C919 4.7/50(RE3)
C930 CK0.1
C931 CK0.1
R907 0
R908 0

D901 KDS226
D902 KDS226

R909 47K
R910 2.2K
R927 47K
R928 2.2K
C927 OPEN_C
C928 OPEN_C

C908 CK0.1

IC902
TC74VHCU04F

C929 CK0.1

IC913
TC74VHC14F

R911 100
R912 100

C1 C2

JK901
2P-JACK_8658001

C-1 C-2

COAX. INPUT

R901 100
R902 100
R903 150
R905 150
R904 150
R906 150
C903 OPEN_C
C904 OPEN_C
C902 0
C901 0

FG

EUROPE_MODEL_ONLY

RDSRST_3 RDSCE_3 TUROSDATA_3 TUROSCLK_3 RDSDOUT_3

R935 100
R937 100
R938 100
R939 100
R940 100

R941 10K
R942 10K

IC914
LC72722PM

VREF STB DATA CLK DO RDS-ID SYNC T7 T6 VSSD VDDD XIN
SYA MPXIN VDDA VSSA FLOUT CIN T1 T2 T3 T4 T5 XOUT

X901 (4.332MHZ)
C937 22P
C938 22P
R943 220
C936 330P
C935 560P
C932 1/50(RE3)
C933 CK0.1
C934 10/50(RE3)

TR901 OPEN
R946 OPEN
R944 OPEN
R958 0

T.MUTE_3

TR902
KRC102S

IC915
KIA7812API
IN OUT

C939 1/50(RE3)
C940 1/50(RE3)

J901
OPEN(12.5)

STEREO_3 TUNED_3 TUSTB_3 TUDOUT_3 RDSDOUT_3 TUROSCLK_3 TUROSDATA_3 RDSCE_3 RDSRST_3 T.MUTE_3 SWM5V_3

SWM5V MGND TUNER_R TUNER_GND TUNER_L +15V

CW161
16P-TUCP-SOCKET

TO 1U-3700-1(2/2)
MAIN CPU UNIT

6 7 8 9 10 11

A B C D E F G H

-3700-2
AL_IN UNIT

ZONE 1
C907 CK0.1
IC905
TC74HC151AF

ZONE2/REC
C906 CK0.1
IC905
TC74HC151AF
R932 100
R930 10K

ZONE3
C905 OPEN
IC901
OPEN
R933 OPEN
R935 OPEN

CW114
11P-TUCP-SOCKET
TO 1U-3700-1(2/2) MAIN CPU UNIT

CW967
6P-TUCP-SOCKET (TO DIR)

R954 100 TUDOUT_3
R955 100 TUDSCLK_3
R956 100 TUDSDATA_3
R957 100 TUSTB_3

CX150
15P-FFC

C954 OPEN_C
C941 OPEN_C
C942 100P
C943 OPEN_C
R946 100K
C944 CK1000P
C945 CK1000P
C946 OPEN_C
C947 CK1000P
C948 CK1000P
C949 CK1000P

R947 10K
R948 10K
R949 2K

J905
OPEN(5)

R952 100
R953 100

R950 1K
R951 1K

TR902 KRC102S
TR903 KRC102S
TR904 DTA114TK
TR905 DTC323TK
TR906 DTC323TK

C950 10/50(RE3)
J902 OPEN(12.5)

IC915 KIA7812API
IC916 OPEN
J906 OPEN(5)
J904 OPEN(5)
C939 1/50(RE3)
C940 1/50(RE3)
C951 OPEN
J903 SHORT_10
J901 OPEN(12.5)

C952 CK1000P
C953 CK1000P

J907 SHORT_10

R945 OPEN
R958 0

to TUNER PACK

AVR-MODEL ONLY

SCHEMATIC DIAGRAMS (3/31)

1U-3700-2 DIGITAL IN UNIT

2 3 4 5 6 7

PREOUT

FL JK801 4P-JACK_8545004
FR
C
SW
SL JK802 4P-JACK_8545004
SR
SBL
SBR

JK803 4P-JACK_8545004
L
ZONE 2 (AVR MODEL ONLY)
R

AVR MODEL ONLY

L
AVR MODEL ZONE 3 OUT
AVC MODEL TUNER IN
R

JK804 4P-JACK_8545004
EXT. IN FL
EXT. IN FR
EXT. IN C
EXT. IN SW
EXT. IN SL
EXT. IN SR
EXT. IN SBL
EXT. IN SBR

8CH EXT. IN

	*1 R883 R884	*2 C833 C834	*3 R877, 873 R878, 874	*4 C833 C834
AVR MODEL	220	22/50	470	22/50
AVC MODEL	100	10/50	0	SHORT

1U-3700-3
EXT_IN/PREOUT UNIT

AVR_MODEL ONL

TR825–TR830 KRA102S

PREFMUTE
PRECMUTE
PRESWMUTE
PRESMUTE
PRESBMUTE
PREZ2MUTE

CW152 15P-TUCP-SOCKET

PREFL
PREGND
PREFR
PREGND
PREC
PREGND
PRESW
PREGND
PRESL
PREGND
PRESR
PREGND
PRESBL
PREGND
PRESBR

TO 1U-3702-4 PRE CONNECT UNIT

CW973 7P-TUCP-SOCKET

PREZ2L
PREGND
PREZ2R
PREGND
PREZ3L
PREGND
PREZ3R

TO 1U-3703-14 PRE CONNECT UNIT

1U-3700-4
PRE_±CONNECT U

J892 OPEN

CX178 OPEN BASE_9610TOP(DIP)
CX177 OPENBASE_DIP_1.25_TOP

1podV
1podGND
R_IPOD
AGND_IPOD
L_IPOD
NC
SC_IPOD
VGND_IPOD
SY_IPOD
IPOD_CON.
IPOD_ID
GND
RXDMI
TXDMO
NC
1podGND
1podV

J891 OPEN_5.0

C891 OPEN

CY171 17P-FFC

VAUXL
VAUXGND
VAUXR
VAUXGND
CVBS
CGND
S-Y
SGND
S-C
DGND
D3.3V
OPT5
MIC+15
MIC-15
MICSIG
MICGND
MICDET

TO 1U-3704-3 FRONT IN UNIT

CW145 14P-FJ-PLUG

AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR

TO 1U-3704-1 AUDIO UNIT

CW914 11P-FJ-PLUG

A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1

TO 1U-3704-1 AUDIO UNIT

.EXTIN-FR
.EXTIN-FL
.EXTIN-SW
.EXTIN-C
.EXTIN-SR
.EXTIN-SL
.EXTIN-SBR
.EXTIN-SBL

TO 1U-3703-12 EXT. CONNECT UNIT

15P-TUCP-SOCKET CW157

6 7 8 9 10 11

A B C D E F G H

700-3
EOUT UNIT

AVR_MODEL ONLY

TR828 KRA102S . PRESMUTE_4
TR829 KRA102S . PRESBMUTE_4
TR830 KRA102S . PREZ2MUTE_4
TR831 KRA102S . PREZ3MUTE_4
TR832 KRA102S . ADMUTE_4

D803 1SR35-400A
D801 1SR35-400A
D802 1SR35-400A
D030 UDZS5.6B

RR827 1K
RR828 10K
RR826 470K
RR829 470K
RR830 1K
RR831 10K
RR832 470K
RR833 1K
RR834 10K
RR835 470K
RR836 1K
RR838 10K
RR842 1K
RR843 10K
RR844 10K
RR841 470K
RR837 1.2K(1W)
RR839 1.2K(1W)
RR840 1.2K(1W)
C857 0.1/50(RE3)
C858 0.1/50(RE3)
C859 0.1/50(RE3)
C866 0.1/50(RE3)
C860 10/50(RE3)

PRESMUTE
PRESBMUTE
PREZ2MUTE
PREZ3MUTE

CW141
14P-TUCP-SOCKET
HIGH+B
MUTE5V
MUTEGND
. ADMUTE_4
. PREZ3MUTE_4
. PREZ2MUTE_4
. PRESBMUTE_4
. PRESMUTE_4
. PRESWMUTE_4
. PRECMUTE_4
. PREFMUTE_4
ADMUTE
-15V

TO 1U-3700-1(2/2)
MAIN CPU UNIT

RR996 OPEN_R
RR997 OPEN_R
RR998 OPEN_R
RR999 OPEN_R

1U-3700-4
PRE_±CONNECT UNIT

D805 OPEN
D807 OPEN
D806 OPEN
D808 OPEN

C867 OPEN
C868 OPEN
C869 OPEN
C870 OPEN
C871 OPEN
C872 OPEN
C873 OPEN
C874 OPEN
C875 OPEN
C876 OPEN
C877 OPEN
C878 OPEN
C879 OPEN
C880 OPEN
C881 OPEN
C882 OPEN

RR850 OPEN
RR851 OPEN
RR852 OPEN
RR853 OPEN
RR854 OPEN
RR855 OPEN
RR856 OPEN
RR857 OPEN
RR858 OPEN
RR859 OPEN
RR860 OPEN
RR861 OPEN
RR862 OPEN
RR863 OPEN
RR864 OPEN
RR865 OPEN
RR845 OPEN_R
RR846 OPEN
RR847 OPEN
RR848 OPEN
RR849 OPEN

IC801 OPEN (1/2)
IC801 OPEN (2/2)

J892 OPEN
J891 OPEN_5.0

CY932 OPEN
R
L

CX178 OPEN BASE_9610TOP(DIP)
CX177 OPENBASE_DIP_1.25_TOP
17 ipod9V
16 ipodGND
15 R_IPOD
14 AGND_IPOD
13 L_IPOD
12 NC
11 SC_IPOD
10 VGND_IPOD
9 SY_IPOD
8 IPOD_CON.
7 IPOD_ID
6 GND
5 RXDMI
4 TXDMO
3 NC
2 ipodGND
1 ipod9V

C891 OPEN

CX931 OPEN
IPODSC
IPODGND
IPODSY

CY066 OPEN
IPOD1
IPOD2
GND
RXDMI
TXDMO
IPODPOWER

CY612 OPEN
ipod9V
ipodGND
ipodPOWER

CY171
17P-FFC
VAUXL
VAUXGND
VAUXR
VAUXGND
CVBS
CGND
S-Y
SGND
S-C
DGND
D3.3V
OPT5
MIC+15
MIC-15
MICSIG
MICGND
MICDET

TO 1U-3704-3
FRONT IN UNIT

CY034 3P-PH(BU)
VAUXL
VAUXGND
VAUXR

V. AUX AUDIO
TO 1U-3704-1
AUDIO UNIT

CY052 5P-PH(RD)
CVBS
CGND
S-Y
SGND
S-C

V. AUX VIDEO
TO 1U-3704-6
S-VIDEO UNIT

CY033 3P-PH(RD)
D3.3V
DGND
OPT5

V. AUX OPT
TO 1U-3700-6
D.IN UNIT

CW053 5P-PH(RD)
MIC+15
MIC-15
MICSIG
MICGND
MICDET

FRONT MICIN
TO 1U-3700-1
MAIN CPU UNIT

CW145
14P-FJ-PLUG
AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR

TO 1U-3704-1
AUDIO UNIT

CW151
15P-TUCP-SOCKET
AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR
AMPGND

TO 1U-3702-2
CONNECT UNIT

CW814
11P-FJ-PLUG
A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1

TO 1U-3704-1
AUDIO UNIT

CW119
11P-TUCP-SOCKET
A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1

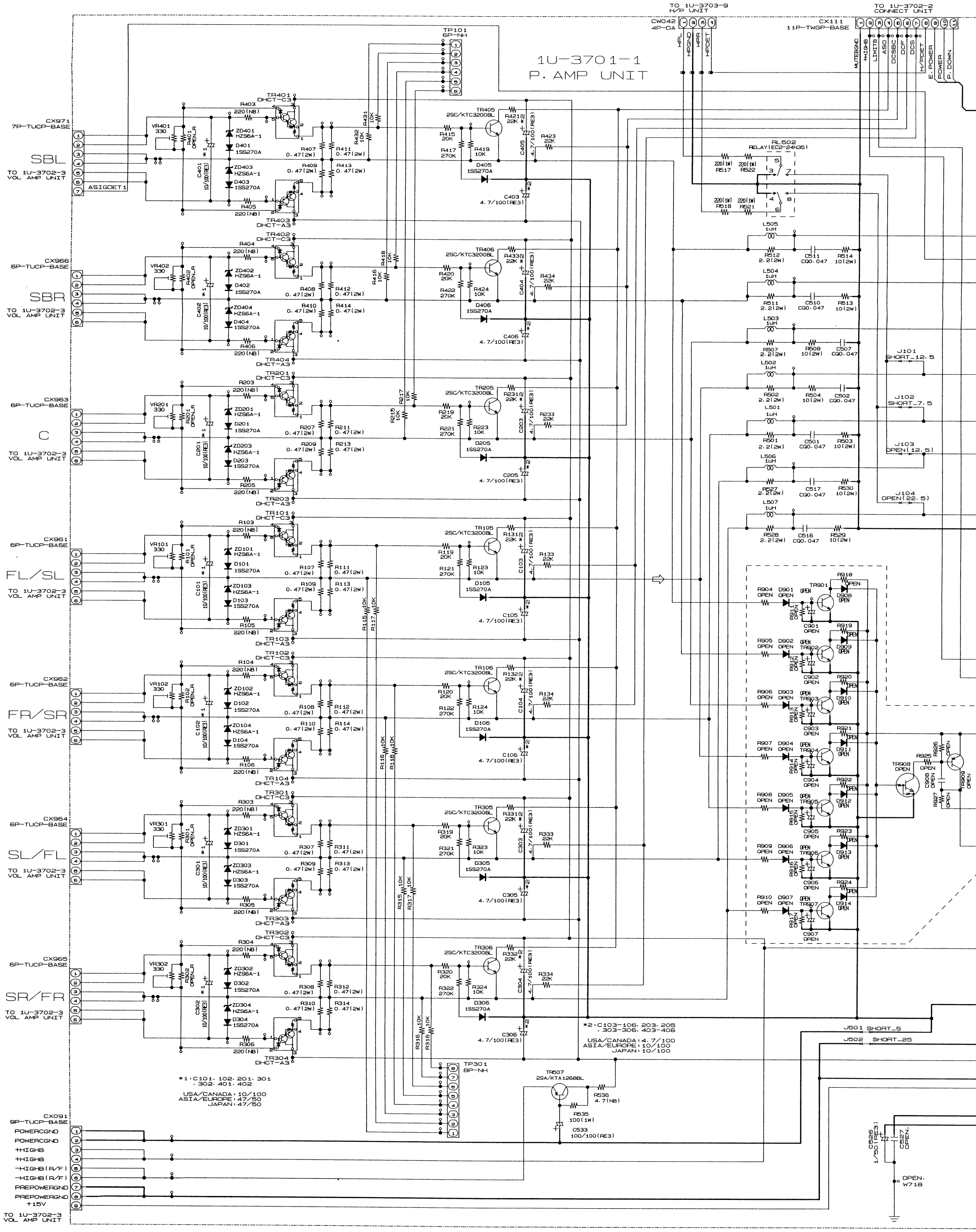
TO 1U-3702-2
CONNECT UNIT

SCHEMATIC DIAGRAMS (4/31)

1U-3700-3 EXT IN / PREOUT UNIT
1U-3700-4 PRE CONNECT2 UNIT

SCHEMATIC DIAGRAMS (5/31)

1 2 3 4 5 6



6 7 8 9 10 11

A B C D E F G H

TO 1U-3702-2 CONNECT UNIT

CX111 13P-TWGP-BASE

MUTEBGND +HIGHB LIMITB ASD DCSBC DCF DCS H/PDET E.POWER POWER P.DOWN

TO 1U-3702-2 CONNECT UNIT

CX131 13P-TWGP-BASE

HPRL SBRL SRB/FBRL SRA/FARL CRL F/SRL BINRL RLGND RLB M6V M6V MGND MGND

RLB RLGND

RL503 RELAY(DS24D2) RL504 RELAY(DS24D2) RL505 RELAY(DS24D2) RL506 RELAY(DS24D2) RL501 RELAY(DS24D2) RL502 RELAY(EC2-24N3S)

D501 1SS270A FRONT D502 1SS270A CENTER D505 1SS270A SRA/FA D506 1SS270A SRB/FB D503 1SS270A S-BACK D504 1SS270A H/P

R506 4.7K R505 10K TR501 KTC3875S(GR)
R510 4.7K R509 10K TR502 KTC3875S(GR)
R524 4.7K R523 10K TR505 KTC3875S(GR)
R526 4.7K R525 10K TR506 KTC3875S(GR)
R516 4.7K R515 10K TR503 KTC3875S(GR)
R520 4.7K R519 10K TR504 KTC3875S(GR)

F/SRL CRL SRA/FARL SRB/FBRL SBRL HPRL

CX972 7P-TUCP-BASE

E.POWER POWER P.DOWN M6V MGND

TO 1U-3701-2 PRIMARY UNIT

R514 10(2W) R513 10(2W) R503 10(2W) R530 10(2W) R529 10(2W)

C507 CQ0.047 C502 CQ0.047

J101 SHORT_12.5
J102 SHORT_7.5
J103 OPEN(12.5)
J104 OPEN(22.5)

RL503 RL504 RL504 RL505 RL505 RL506 RL506 RL501 RL501

C513 CQ0.0047 C515 CK1000P C514 CK1000P → FR
C512 CQ0.0047 → FL
C508 CQ0.0047 C509 CK1000P C522 CK1000P C518 CQ0.0047 → CENTER
SRA
JK503 8P-SP-TERM-1250001
C519 CQ0.0047 C524 CK1000P C523 CK1000P C520 CQ0.0047 → SLA
SRB
JK501 4P-SP_1252009
C521 CQ0.0047 C525 CK1000P → SLB
C504 CQ0.0047 C506 CK1000P C505 CK1000P C503 CQ0.0047 → SBR
SBL
JK502 6P_SP_TER. 1251000

R918 OPEN D908 OPEN
R919 OPEN D909 OPEN
R920 OPEN D910 OPEN
R921 OPEN D911 OPEN
R922 OPEN D912 OPEN
R923 OPEN D913 OPEN
R924 OPEN D914 OPEN

R928 OPEN R929 OPEN +15V
TR908 OPEN R925 OPEN R926 OPEN C908 OPEN TR909 OPEN R927 OPEN C909 OPEN ZD704 OPEN

J106 OPEN(12.5)
J105 OPEN(5)
R531 0.1(5W) R532 0.1(5W)

C528 15000/71(DL) C529 15000/71(DL)
R533 47K R534 47K
D507 S4VB20F D508 S4VB20F

AS503 RADIATOR AS505 RADIATOR AS504 AS506 3X16_CPTS(B)SWW 3X16_CPTS(B)SWW

J504 SHORT_5 J505 SHORT_5
C530 CF0.33(250V) C532 CF0.33(250V) C531 CF0.33(250V)
RL508 OPEN RL507 OPEN
J506 OPEN(15) F31 J507 OPEN(15) F32
CX055 5P-VH RED ORG BLK ORG RED FROM POWERTRANS

RL507 OPEN RL508 OPEN D509 OPEN
R538 OPEN R537 OPEN TR508 OPEN
RLB BINRL RLGND

W311A W311 4P
J501 SHORT_5
J502 SHORT_25

C526 1/50(RE3) C527 OPEN
OPEN. W718

CX978 7P-TUCP-BASE
R998 10K R999 10K

SCHEMATIC DIAGRAMS (5/31)

1U-3701-1 POWER AMP UNIT

2 3 4 5 6 7

1U-3701-2
PRIMARY_UNIT

AVR4306 ONLY

CX045 OPEN
OPEN(5)
J601
E3.3V
E5V
EGND
EGND
C608 OPEN_C
C609 OPEN
IC605 OPEN
OUT IN
C615 OPEN_C
C616 OPEN
IC601 OPEN
OUT IN
G VC
R631 OPEN
R632 OPEN_R
AS601 OPEN.
R601 OPEN
IC602 OPEN
C622 OPEN
C621 OPEN_C
C623 OPEN
D608 OPEN
D609 OPEN
D606 OPEN
D603 OPEN
C624 OPEN
CX046 OPEN
MIN

R621 OPEN
ZD604 OPEN
TR611 OPEN
R622 OPEN
R623 OPEN
TR610 OPEN
R609 OPEN
D610 OPEN

R602 4.7K
ZD601 MTZJ18A
TR601 KRC102S
R603 4.7K
R604 10K
TR602 KTC3875S(GR)
R610 180(1W)
D601 KDS160

CW972
7P-TUCP-SOCKET
E.POWER
POWER
P.DOWN
M6V
MGND
TO 1U-3701-1 P.AMP UNIT

ZD603 UDZS6.8B
D604 1SR35-400A
D605 1SR35-400A
C617 1/50(RE3)
R605 4.7K
IC603 PQ30RV11
OUT IN
G VC
R606 51K_D
R607 150K_D
R608 10K_D
IC604 ICPN15
R618 10K
R619 20K
C602 OPEN_C
C603 10/50(RE3)
TR609 KTC3875S(GR)
AS602 OPEN.
C604 OPEN_C
C605 6800/25(SMG)
C606 1/50(RE3)
D611 1SR35-400A
D612 1SR35-400A
D602 1SR35-400A
D607 1SR35-400A
C607 CQ0.1
MIN

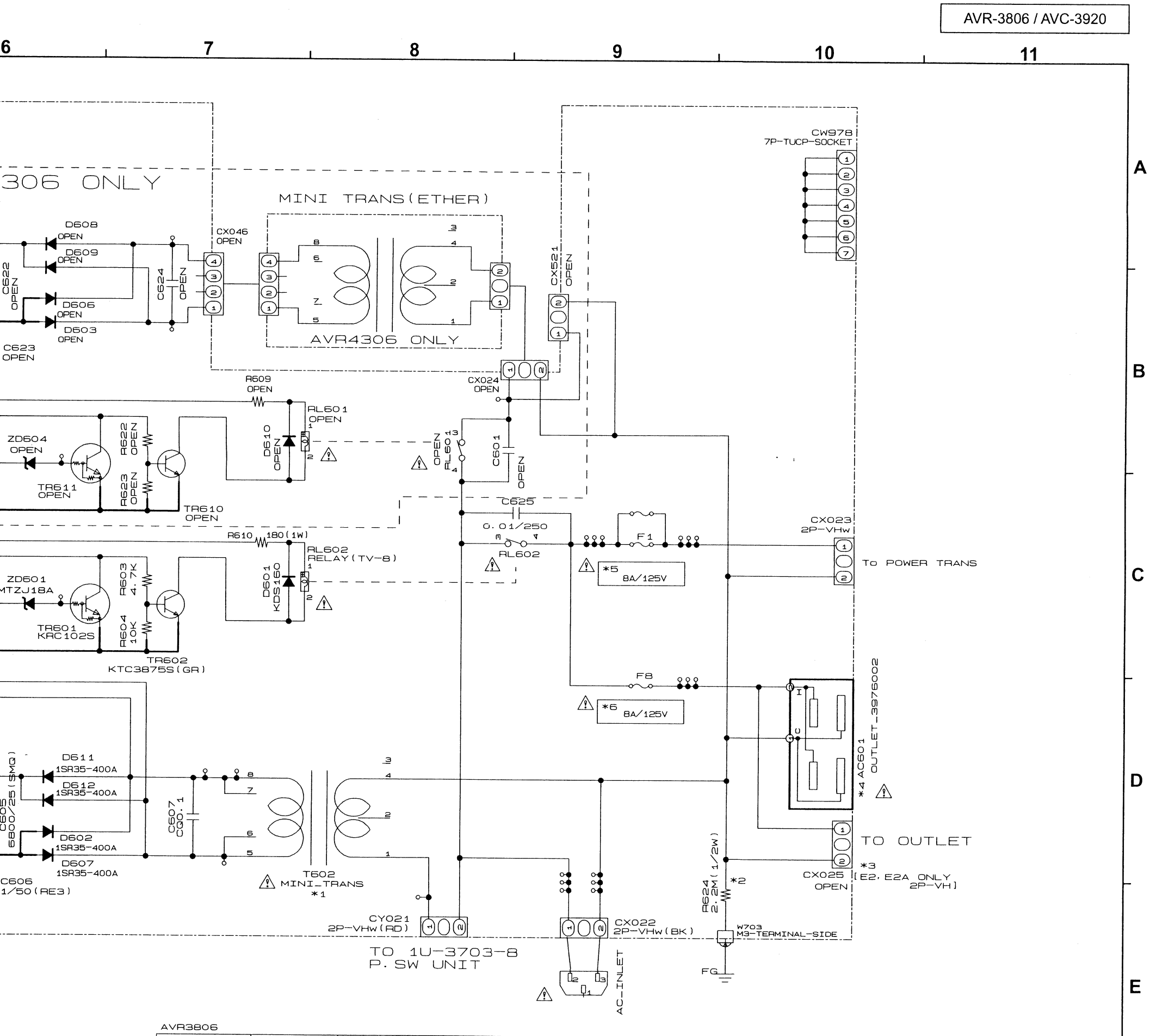
W701
M3-TERMINAL-SIDE
GND2

AVR3806

1U-3701-6

ST601
STYLE-PIN

	*1 T602
*USA CANADA	2336524
EUROPE	2336526
ASIA	2336526
CHINA KOREA	2336528
TAIWAN R.O.C	2336524
JAPAN	2330703



AVR3806

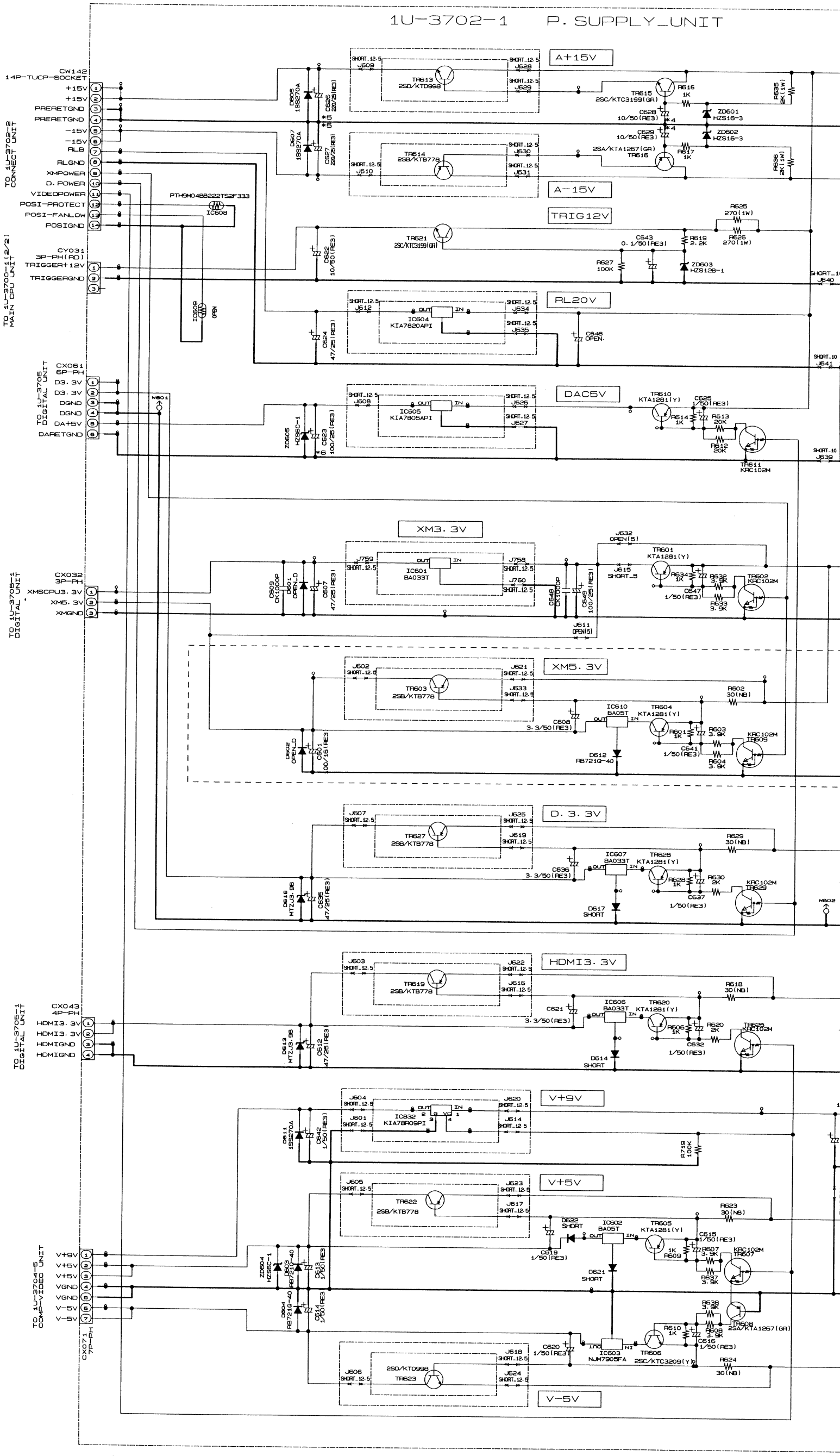
	*1 T602	*2 R624	*3 CX025	*4 AC601	*5 F1	*6 F8
*USA CANADA	2336524009	2.2M	OPEN	AC OUTLET	8A/125V	8A/125V
EUROPE	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
ASIA	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
CHINA KOREA	2336528005	OPEN	OPEN	OPEN	4A/250V	OPEN
TAIWAN R.O.C	2336524009	OPEN	OPEN	AC OUTLET	8A/125V	8A/125V
JAPAN	2330703004	OPEN	OPEN	AC OUTLET	10A/125V	8A/125V

SCHEMATIC DIAGRAMS (6/31)

1U-3701-2 PRIMARY UNIT
1U-3701-6 STYLE PIN UNIT

SCHEMATIC DIAGRAMS (7/31)

1 2 3 4 5 6



6 7 8 9 10 11

A B C D E F G H

PLY_UNIT

*1 F11
3. 15A/125V

D608
S4VB20

C630
8200/35

C631
8200/35

C505
C00. 1

C611
C0. 1(250V)

C506
C00. 1

CX035
3P-EH
To POWER TRANS

*1 F12
3. 15A/125V

R625
270(1W)

R626
270(1W)

C643
0. 1/50(RE3)

R619
2. 2K

ZD603
HZS12B-1

SHORT_10
J640

SHORT_10
J641

TR610
KTA1281(Y)

C625
1/50(RE3)

R614
1K

R613
20K

R612
20K

SHORT_10
J639

TR611
KRC102M

AVR3806

	*1 F11. 12	*2 F13. 14	*3 F15. 16	*4 C628 C629	*5 C626 C627	*6 C623
*USA CANADA	3. 15A/125V	8A/125V	3. 15A/125V	10/50	220/25	100/25
EUROPE	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
ASIA	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
CHINA KOREA	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
TAIWAN R.O.C	3. 15A/125V	8A/125V	3. 15A/125V	10/50	220/25	100/25
JAPAN	3. 15A/125V	8A/125V	3. 15A/125V	47/50	100/50	100/50

TR601
KTA1281(Y)

R634
1K

R632
3. 9K

TR602
KRC102M

C647
1/50(RE3)

R633
3. 9K

D627
1SR35-400A

D626
1SR35-400A

C610
1000/25(SMG)

D625
1SR35-400A

D624
1SR35-400A

15000/16(SMG)
C651

*2 F13
8A/125V

C634
C00. 1

J754
SHORT_15

CX036
3P-VH
To POWER TRANS

*2 F14
8A/125V

R602
30(NB)

TR604
KTA1281(Y)

R601
1K

R603
3. 9K

KRC102M
TR603

C641
1/50(RE3)

R604
3. 9K

USA/CANADA
MODEL ONLY

R629
30(NB)

TR628
KTA1281(Y)

R628
1K

R630
2K

KRC102M
TR629

C637
1/50(RE3)

W602

C633
22000/16(SMG)

C650
8200/16(SMG)

D618
S4VB20

J756
OPEN(5)

R618
30(NB)

TR620
KTA1281(Y)

R606
1K

R620
2K

TR625
KRC102M

C632
1/50(RE3)

S4VB20
D615

J757
OPEN(5)

C638
22000/16(SMG)

C645
OPEN

D610
1SR35-400A

C639
2200/35

C640
2200/35

D609
1SR35-400A

R719
100K

SHORT_15
J613

R623
30(NB)

TR605
KTA1281(Y)

C615
1/50(RE3)

4K
R609

R607
3. 9K

KRC102M
TR607

R637
3. 9K

R638
3. 9K

TR608
2SA/KTA1267(GR)

R610
1K

R608
3. 9K

C616
1/50(RE3)

TR606
2SC/KTC3209(Y)

R624
30(NB)

C617
15000/16(SMG)

C618
15000/16(SMG)

S4VB20
D605

C502
C00. 1

C504
C00. 1

*3 F15
3. 15A/125V

CX037
3P-EH(BU)
To POWER TRANS

C503
C00. 1

*3 F16
3. 15A/125V

SCHEMATIC DIAGRAMS (7/31)

1U-3702-1 P. SUPPLY UNIT

1 2 3 4 5 6 7

1U-3702-4
PRE_CONNECT UNIT

CX152
15P-TUCP-BASE

1	PREFL
2	PREGND
3	PREFR
4	PREGND
5	PREC
6	PREGND
7	PRESW
8	PREGND
9	PRESL
10	PREGND
11	PRESR
12	PREGND
13	PRESBL
14	PREGND
15	PRESBR

CX153
15P-TUCP-BASE

1	PREFL
2	PREGND
3	PREFR
4	PREGND
5	PREC
6	PREGND
7	PRESW
8	PREGND
9	PRESL
10	PREGND
11	PRESR
12	PREGND
13	PRESBL
14	PREGND
15	PRESBR

TO 1U-3700-3
EXT_IN/PREOUT UNIT

1	PREZ2L
2	PREGND
3	PREZ2R
4	PREGND
5	PREZ3L
6	PREGND
7	PREZ3R

TO 1U-3704-1(3/4)
AUDIO UNIT

1	PREZ2L
2	PREGND
3	PREZ2R
4	PREGND
5	PREZ3L
6	PREGND
7	PREZ3R

CX973
7P-TUCP-BASE

CX974
7P-TUCP-BASE

TO 1U-3702-1
P. SUPPLY UNIT

CX142
14P-TUCP-BASE

1	+15V
2	+15V
3	PRERETGND
4	PRERETGND
5	-15V
6	-15V
7	RLB
8	RLGND
9	XMPOWER
10	D. POWER
11	VIDEOPOWER
12	POSI-PROTECT
13	POSI-FANLOW
14	POSIGND

D623 1SS270A XMPOWER
D620 1SS270A D. POWER
D619 1SS270A V. POWER
DARETGND

CX151
15P-TUCP-BASE

TO 1U-3700-4
PRE CONNECT2 UNIT

1	AMPGND
2	AMPFL
3	AMPGND
4	AMPFR
5	AMPGND
6	AMPC
7	AMPGND
8	AMPSL
9	AMPGND
10	AMPSR
11	AMPGND
12	AMPSBL
13	AMPGND
14	AMPSBR
15	AMPGND

CX119
11P-TUCP-BASE

TO 1U-3700-4
PRE CONNECT2 UNIT

1	A+15V
2	A+15V
3	A-15V
4	A-15V
5	PRERETGND
6	PRERETGND
7	MUTEBGND
8	MUTEBGND
9	LIMIT+B
10	HIGH+B
11	ASIGDET1

1U-3
CONNEC

C701 CKO.01
R702 10K
R701 100K
TR7 2SA
TP701 3P-NHS

CW975
7P-TWGP-PLUG

1	XMPOWER
2	D. POWER
3	V. POWER
4	H/PDET
5	E. POWER
6	
7	

POSILOW
PROTECTION

TO 1U-3700-1
MAIN CPU UNIT

CW132
13P-TWGP-PLUG

1	POWER
2	P. DOWN
3	HPAL
4	SBAL
5	SRB/FBAL
6	SRA/FAAL
7	CAL
8	F/SAL
9	BINAL
10	M5V
11	M5V
12	MGND
13	MGND

CW111
11P-TWGP-PLUG

TO 1U-3700-1
MAIN CPU UNIT

1	MUTEBGND
2	+HIGHB
3	LIMITB
4	ASO
5	DCSBC
6	DCF
7	DCS
8	H/PDET
9	E. POWER
10	POWER
11	P. DOWN

CW131
13P-TWGP-PLUG

TO 1U-3701-1
P. AMP UNIT

6 7 8 9 10 11

A B C D E F G H

1U-3702-2
CONNECT UNIT

CW191
19P-TWGP-PLUG
1 GND
2 SBL2
3 GND
4 SBR2
5 GND
6 C2
7 GND
8 FL4
9 GND
10 FR4
11 GND
12 SL2
13 GND
14 SR2
15 GND
16 ASIGDET1
17 +15V
18 +15V
19 +15V
TO 1U-3702-3
VOL AMP UNIT

J752 SHORT_5
J751 SHORT_5
J750 OPEN(10)
J749 OPEN(10)
J748 OPEN(10)
J747 OPEN(15)
J746 SHORT_5
J745 SHORT_5

C701 CKO.01
R702 10K
TR701 2SA/KTA1268BL
R701 100K
R703 16K
C702 10/50(PE3)
R704 1K
TP701 3P-NHs
R714 4.7
R715 4.7
TR702 KTC3875S(GR)
TR703 KTC3875S(GR)
R706 100K
C703 CKO.1
TR704 2SA/KTA1504S(GR)
R708 4.7
330/6.3 C704
R710 16K
TR705 KTC3875S(GR)
TR706 KTC3875S(GR)
R709 100K
C705 CKO.1
TR707 2SA/KTA1504S(GR)
330/6.3 C706
R707 16K
TR708 KTC3875S(GR)
R711 4.7
R712 100K
C707 CKO.1
TR709 KTC3875S(GR)
TR710 2SA/KTA1504S(GR)
330/6.3 C708
R713 33K
TR711 KTC3875S(GR)
R715 4.7
R716 620K
TR712 KTC3875S(GR)
10/25 C709
R717 OPEN_R
R718 OPEN_R
TR713 OPEN
OPEN C710

CW111
11P-TWGP-PLUG
MUTEBGND
+HIGHB
LIMITB
ASO
DCSBC
DCF
DCS
H/PDET
E.POWER
POWER
P.DOWN
TO 1U-3701-1
P.AMP UNIT

CW131
13P-TWGP-PLUG
HPRL
SBRL
SRB/FBRL
SRA/FARL
CRL
F/SRL
BINRL
RLGND
RLB
MGV
MGV
MGND
MGND
TO 1U-3701-1
P.AMP UNIT

ST609
STYLE-PIN
2050452017

ST610
OPEN

AS607
M3-TER. SIDE-3.2
2051034010

AS606
M3-TER. SIDE-3.2
2051034010

OPEN C712
IC833 OPEN
QUT
IN
OPEN C711
CX038 OPEN

SCHEMATIC DIAGRAMS (8/31)

1U-3702-2 CONNECT UNIT
1U-3702-4 PRE CONNECT UNIT

CHEMATIC DIAGRAMS (9/31)

1 2 3 4 5 6

1U-3702-3
VOL_AMP_UNIT

CX191
19P-TWGP-BASE

GND	1	
SBL2	2	
GND	3	
SBR2	4	
GND	5	
C2	6	
GND	7	
FL4	8	
GND	9	
FR4	10	
GND	11	
SL2	12	
GND	13	
SR2	14	
GND	15	
ASIGDET1	16	
+15V	17	
+15V	18	
+15V	19	

TO 1U-3702-2
CONNECT UNIT

AS609
M3-TERMINAL-SIDE
2051034007

AS605
M3-TER. SIDE-3.2

SBL
C599 1/50(ARSA)
C409 10/50(RE3)
R421 2.2K
C411 CQ220P
R425 33K
C413 *7 CQ470P
2SA/KTA1268BL TR407
2SA/KTA1268BL TR409
R429 15K
C419 33P(500V)
R435 33K
R423 1.2K
R427 1K(NB)
C415 CQ0.0033
R431 300
R433 1K(NB)
C417 220/50(RE3)
D401 1SS270A
D403 1SS270A
R439 220(NB)
R443 220(NB)
R437 15K(1W)
TR413 KTA1024Y-A
C427 OPEN.
C421 5P(500V)
KTC3206Y-AT TR411
C423 47P(500V) *9
C426 220P(100V) *10
270(NB) R441
TR415 KTC3206Y-AT
D405 1SS270A

SBR
C410 10/50(RE3)
R422 2.2K
C412 CQ220P
R426 33K
C414 *7 CQ470P
2SA/KTA1268BL TR408
2SA/KTA1268BL TR410
R430 15K
C420 33P(500V)
R436 33K
R424 1.2K
R428 1K(NB)
C416 CQ0.0033
R432 300
R434 1K(NB)
C418 220/50(RE3)
D402 1SS270A
D404 1SS270A
R440 220(NB)
R444 220(NB)
R438 15K(1W)
TR414 KTA1024Y-A
C428 OPEN.
C422 5P(500V)
KTC3206Y-AT TR412
C424 47P(500V) *9
C426 220P(100V) *10
270(NB) R442
TR416 KTC3206Y-AT
D406 1SS270A

C
C209 10/50(RE3)
R221 2.2K
C211 CQ220P
R225 33K
C213 *7 CQ470P
2SA/KTA1268BL TR207
2SA/KTA1268BL TR209
R229 15K
C219 33P(500V)
R235 33K
R223 1.2K
R227 1K(NB)
C215 CQ0.0033
R231 300
R233 1K(NB)
C217 220/50(RE3)
D201 1SS270A
D203 1SS270A
R239 220(NB)
R243 220(NB)
R237 15K(1W)
TR213 KTA1024Y-A
C227 OPEN.
C221 5P(500V)
KTC3206Y-AT TR211
C223 47P(500V) *9
C225 220P(100V) *10
270(NB) R241
TR215 KTC3206Y-AT
D205 1SS270A

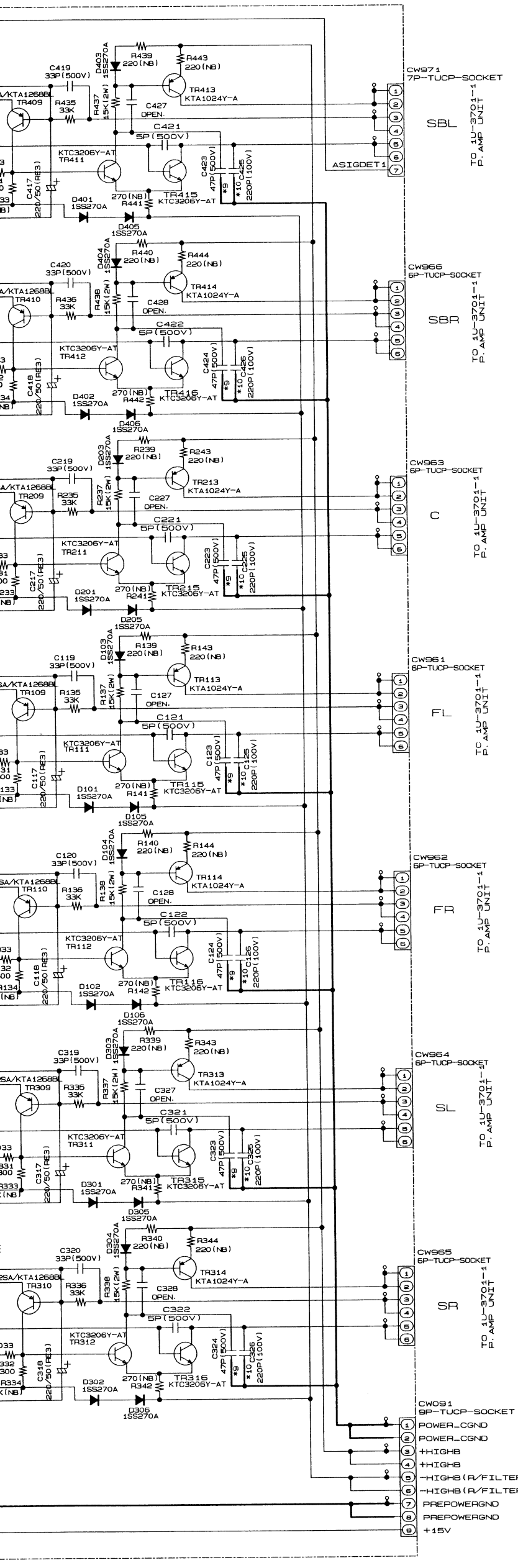
FL
C109 10/50(RE3)
R121 2.2K
C111 CQ220P
R125 33K
C113 *7 CQ470P
2SA/KTA1268BL TR107
2SA/KTA1268BL TR109
R129 15K
C119 33P(500V)
R135 33K
R123 1.2K
R127 1K(NB)
C115 CQ0.0033
R131 300
R133 1K(NB)
C117 220/50(RE3)
D101 1SS270A
D103 1SS270A
R139 220(NB)
R143 220(NB)
R137 15K(1W)
TR113 KTA1024Y-A
C127 OPEN.
C121 5P(500V)
KTC3206Y-AT TR111
C123 47P(500V) *9
C125 220P(100V) *10
270(NB) R141
TR115 KTC3206Y-AT
D105 1SS270A

FR
C110 10/50(RE3)
R122 2.2K
C112 CQ220P
R126 33K
C114 *7 CQ470P
2SA/KTA1268BL TR108
2SA/KTA1268BL TR110
R130 15K
C120 33P(500V)
R136 33K
R124 1.2K
R128 1K(NB)
C116 CQ0.0033
R132 300
R134 1K(NB)
C118 220/50(RE3)
D102 1SS270A
D104 1SS270A
R140 220(NB)
R144 220(NB)
R138 15K(1W)
TR114 KTA1024Y-A
C128 OPEN.
C122 5P(500V)
KTC3206Y-AT TR112
C124 47P(500V) *9
C126 220P(100V) *10
270(NB) R142
TR116 KTC3206Y-AT
D106 1SS270A

SL
C309 10/50(RE3)
R321 2.2K
C311 CQ220P
R325 33K
C313 *7 CQ470P
2SA/KTA1268BL TR307
2SA/KTA1268BL TR309
R329 15K
C319 33P(500V)
R335 33K
R323 1.2K
R327 1K(NB)
C315 CQ0.0033
R331 300
R333 1K(NB)
C317 220/50(RE3)
D301 1SS270A
D303 1SS270A
R339 220(NB)
R343 220(NB)
R337 15K(1W)
TR313 KTA1024Y-A
C327 OPEN.
C321 5P(500V)
KTC3206Y-AT TR311
C323 47P(500V) *9
C325 220P(100V) *10
270(NB) R341
TR315 KTC3206Y-AT
D305 1SS270A

SR
C310 10/50(RE3)
R322 2.2K
C312 CQ220P
R326 33K
C314 *7 CQ470P
2SA/KTA1268BL TR308
2SA/KTA1268BL TR310
R330 15K
C320 33P(500V)
R336 33K
R324 1.2K
R328 1K(NB)
C316 CQ0.0033
R332 300
R334 1K(NB)
C318 220/50(RE3)
D302 1SS270A
D304 1SS270A
R340 220(NB)
R344 220(NB)
R338 15K(1W)
TR314 KTA1024Y-A
C328 OPEN.
C322 5P(500V)
KTC3206Y-AT TR312
C324 47P(500V) *9
C326 220P(100V) *10
270(NB) R342
TR316 KTC3206Y-AT
D306 1SS270A

6 7 8 9 10 11

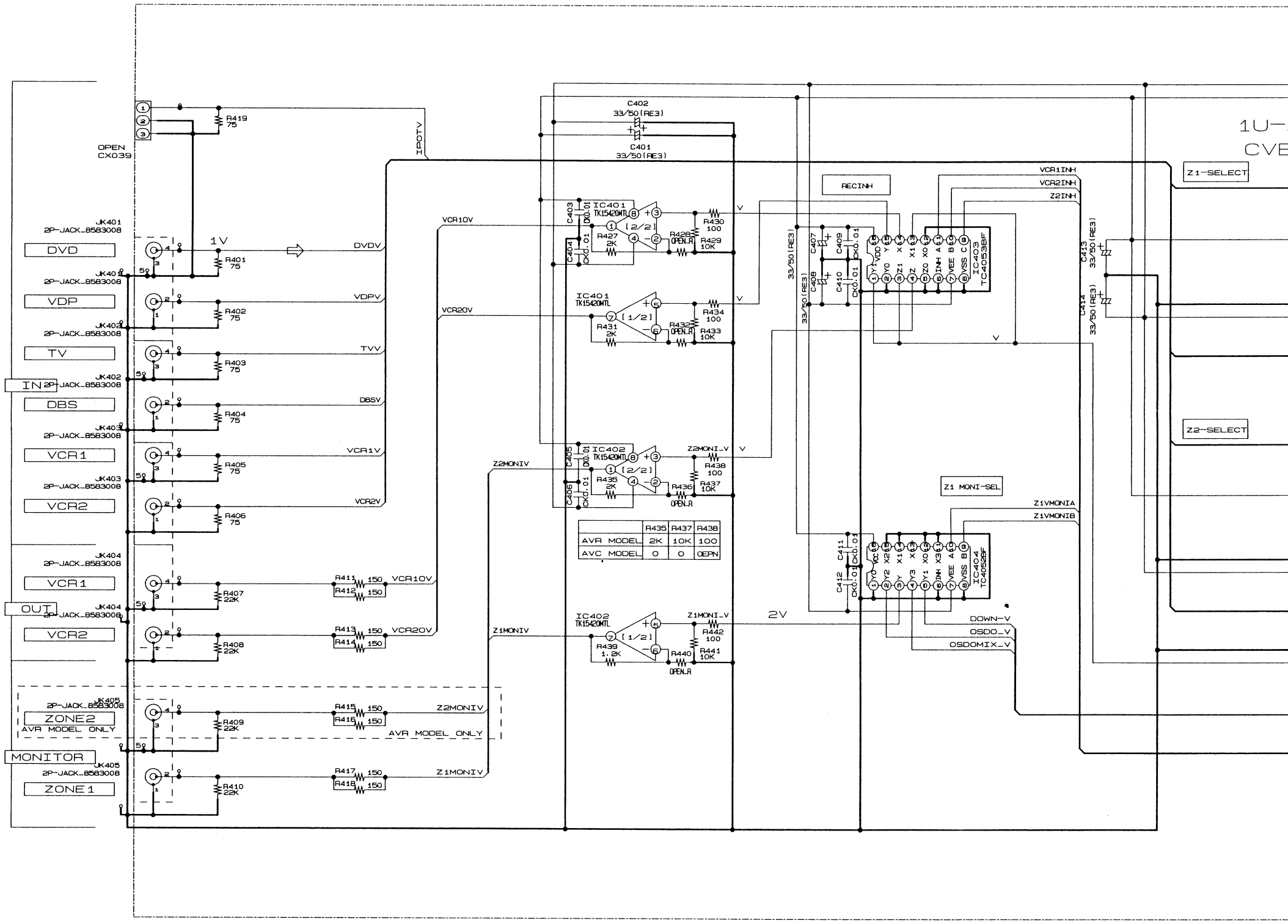


SCHEMATIC DIAGRAMS (9/31)

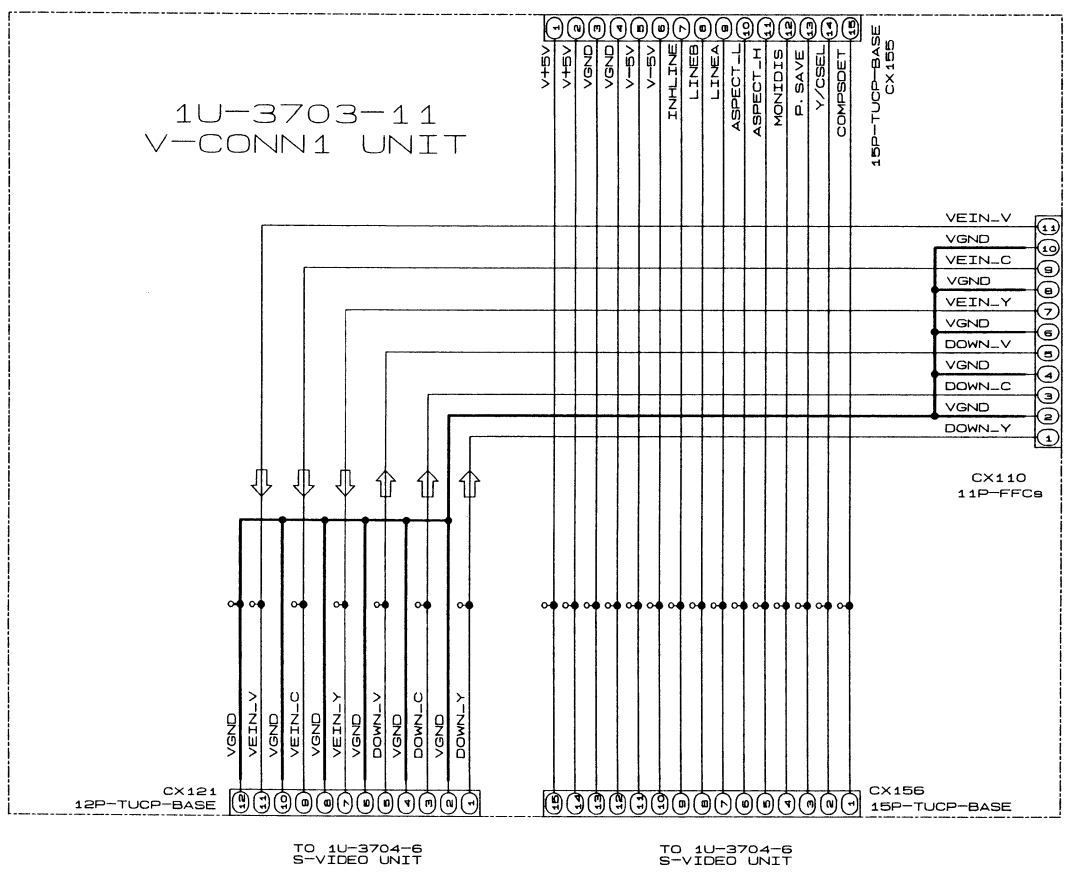
1U-3702-3 VOL AMP UNIT

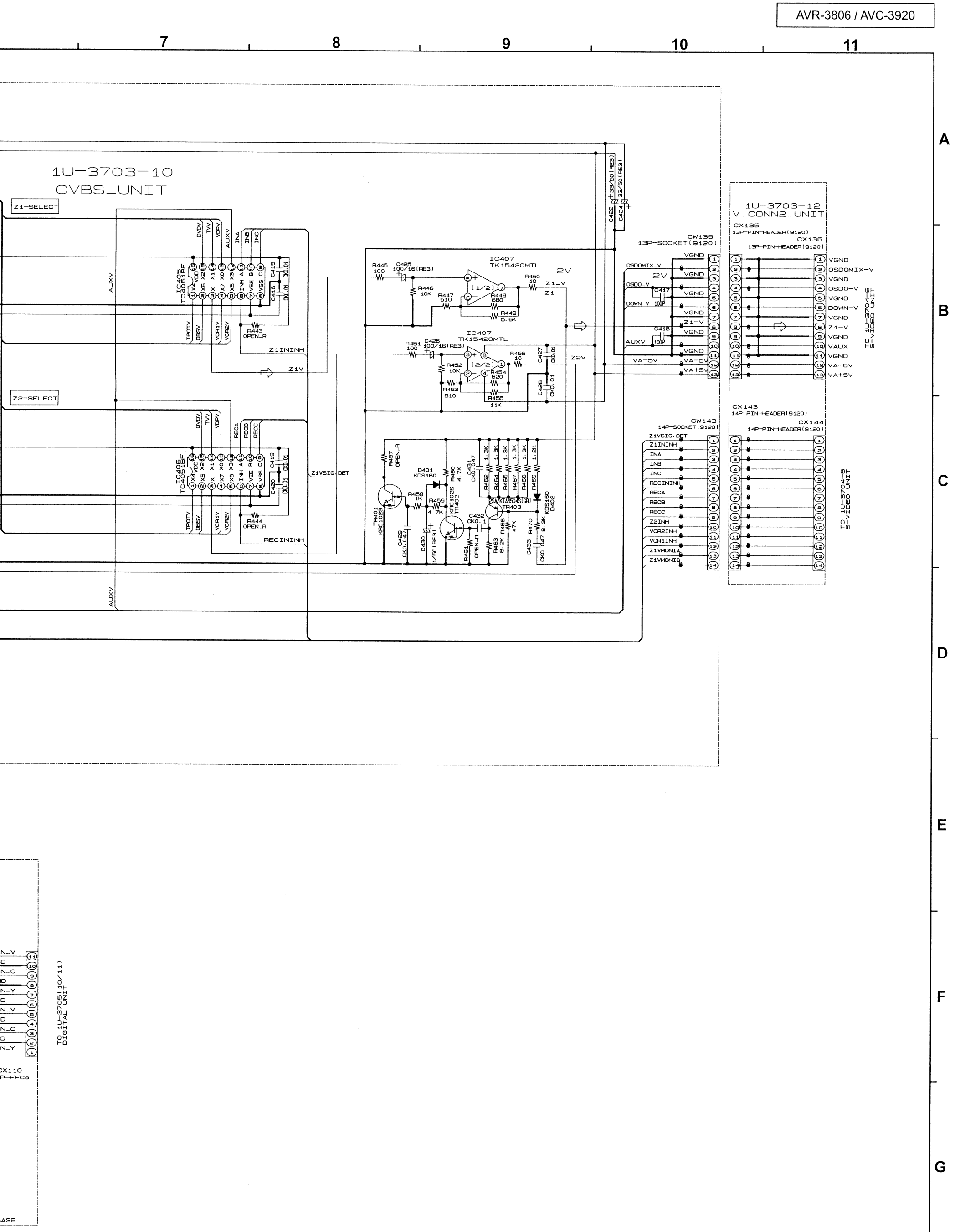
SCHEMATIC DIAGRAMS (10/31)

1 2 3 4 5 6



	R435	R437	R438
AVR MODEL	2K	10K	100
AVC MODEL	O	O	OPEN





SCHEMATIC DIAGRAMS (10/31)

1U-3703-10 CVBS UNIT
1U-3703-11 V-CONN1 UNIT
1U-3703-12 V-CONN2 UNIT

1 2 3 4 5 6

1U-3703-13
232C_UNIT

RS-232C
JK705
9P-SSUB-CONN
FB714 0
FB715 0
R705 1K
R706 1K
C722 100P
C723 CK0.01
C708 CK0.1
C726 100P
C724 100P
C725 100P
C712 0.1/50
10/16 C716
C715 CK0.1
C713 0.1/50
C714 0.1/50
C707 0.1/50
R714 1K
R715 1K
HIN202EIBNZ-T
IC705

AVR MODEL ONLY
ROOM to ROOM REMOCON IN
JK701 MINI JACK
ROOM to ROOM REMOCON OUT
JK702 MINI JACK
C703 CK0.1
C701 CK1000P
ZD701 UDZS6.2B
R701 1K
FB709 0
R710 39K
C710 1/50
R709 1K
C705 100P
R708 470
C709 CK0.01
IC701 CXA1511M
R707 200K
C702 33/10
C704 CK0.01
R704 22
R702 22
TR701 KRA104S
AVR MODEL ONLY

TRIGGER OUT1
JK703 MINI JACK
TRIGGER OUT2
JK704 MINI JACK
FB705 0
C705 CK0.1
ZD702 UDZS16B
TR704 KRA104S
TR702 KRC104S
FB713 0
C718 CK0.1
ZD703 UDZS16B
TR705 KRA104S
TR703 KRC104S
R703 0
C717 CK0.1
C711 CK0.1

JK804 2P-JACK
CD
R825 100
R826 100
C805 330P
C806 330P
R827 100K
R828 100K
C856 10/35
C857 10/35
C859 OPEN_C
C858 OPEN_C
R891 91K
R892 91K
IC804 NJM2068MD (1/2)
IC804 NJM2068MD (2/2)
R893 47
R894 47
C878 33/25
C879 33/25
100K R895
100K R896
C890 CK0.1
C888 1/50
C889 CK0.1
FG

JK805 2P-JACK
PHONO
R833 0
R835 390
L801 OPEN
C819 220P
C821 10/35
R837 68K
R839 150K
C817 OPEN_C
C818 OPEN_C
L802 OPEN
C820 220P
C822 10/35
R838 68K
R840 150K
R834 0
R836 390
R842 47
R841 47
IC802 NJM2068MD (1/2)
IC802 NJM2068MD (2/2)
C823 100P
C824 220/6.3(SMA)
C825 220/6.3(SMA)
C826 100P
R843 240
R844 240
R845 130K
R846 130K
R847 11K
R848 11K
R849 22
R850 22
R851 47
R852 47
C827 C00.022
C828 C00.022
C829 C00.0068
C830 C00.0068
C891 OPEN
C892 OPEN
C893 OPEN
C894 OPEN
C831 10/35
C832 10/35
R853 47K
R854 47K
C846 10/35
C848 10/35

AVR3806

	L801. 802	R833. 834	FB704. 708
*USA CANADA	OPEN	0	0
EUROPE ASIA	FTZ CHOKE COIL	4.7K	0
JAPAN	OPEN	0	OPEN

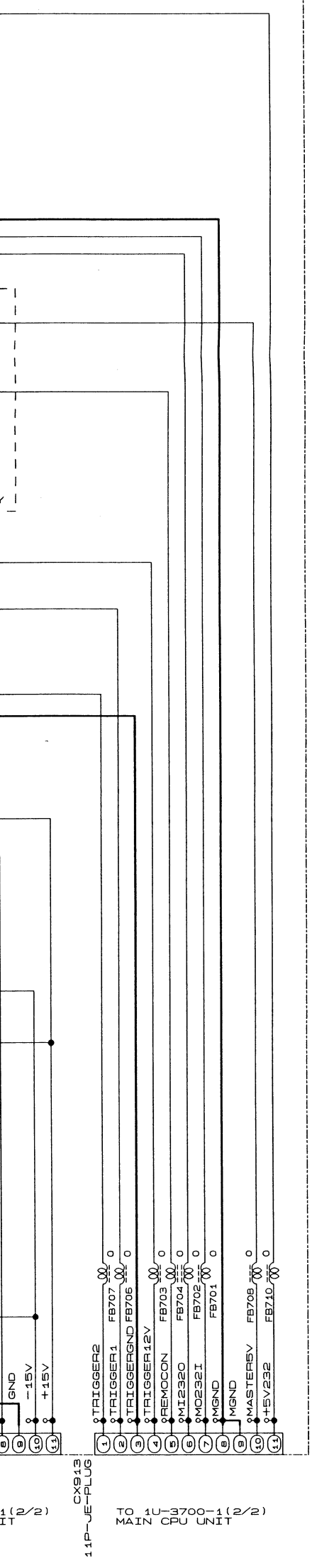
GND PHONOR GND PHONOL GND CDR GND CDL GND -15V +15V
CX912 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

TRIGGER2 TRIGGER1 TRIGGERGND TRIGGER12V REMOCON MI2320 MO232I MGND MGND MASTER5V
FB707 FB706 FB703 FB704 FB702 FB701 FB708
CX913 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

6 7 8 9 10 11

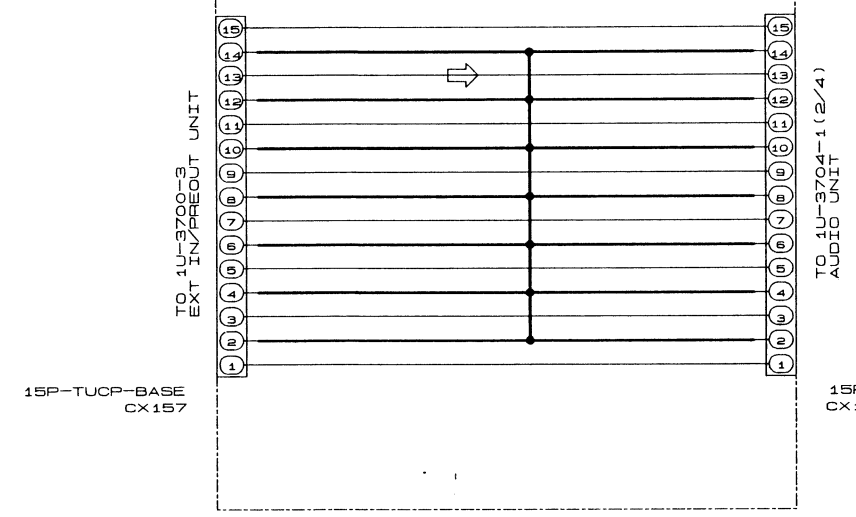
A B C D E F G H

—13
NIT



1(2/2)
IT

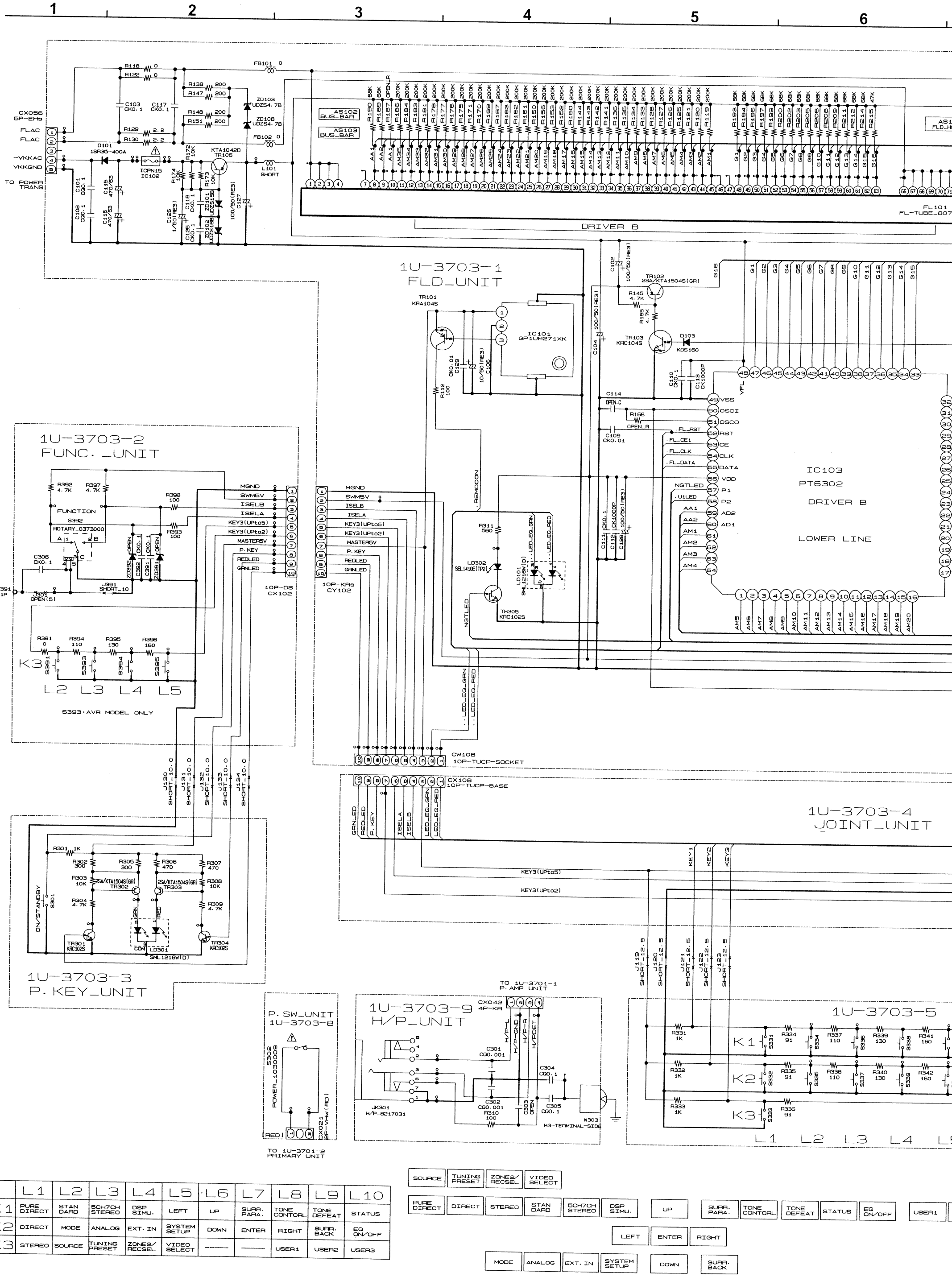
1U−3703−14
EXT. CONNECT UNIT



SCHEMATIC DIAGRAMS (11/31)

1U-3703-13 232C UNIT
1U-3703-14 EXT. CONNECT UNIT

SCHEMATIC DIAGRAMS (12/31)



	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
K1	PURE DIRECT	STAN DARD	5CH7CH STEREO	DSP SIMU.	LEFT	UP	SURR. PARA.	TONE CONTORL	TONE DEFEAT	STATUS
K2	DIRECT	MODE	ANALOG	EXT. IN	SYSTEM SETUP	DOWN	ENTER	RIGHT	SURR. BACK	EQ ON/OFF
K3	STEREO	SOURCE	TUNING PRESET	ZONE2/ RECSEL	VIDEO SELECT	———	———	USER1	USER2	USER3

SOURCE | TUNING PRESET | ZONE2/ RECSEL | VIDEO SELECT

PURE DIRECT | DIRECT | STEREO | STAN DARD | 5CH7CH STEREO | DSP SIMU. | UP | SURR. PARA. | TONE CONTORL | TONE DEFEAT | STATUS | EQ ON/OFF | USER1

LEFT | ENTER | RIGHT

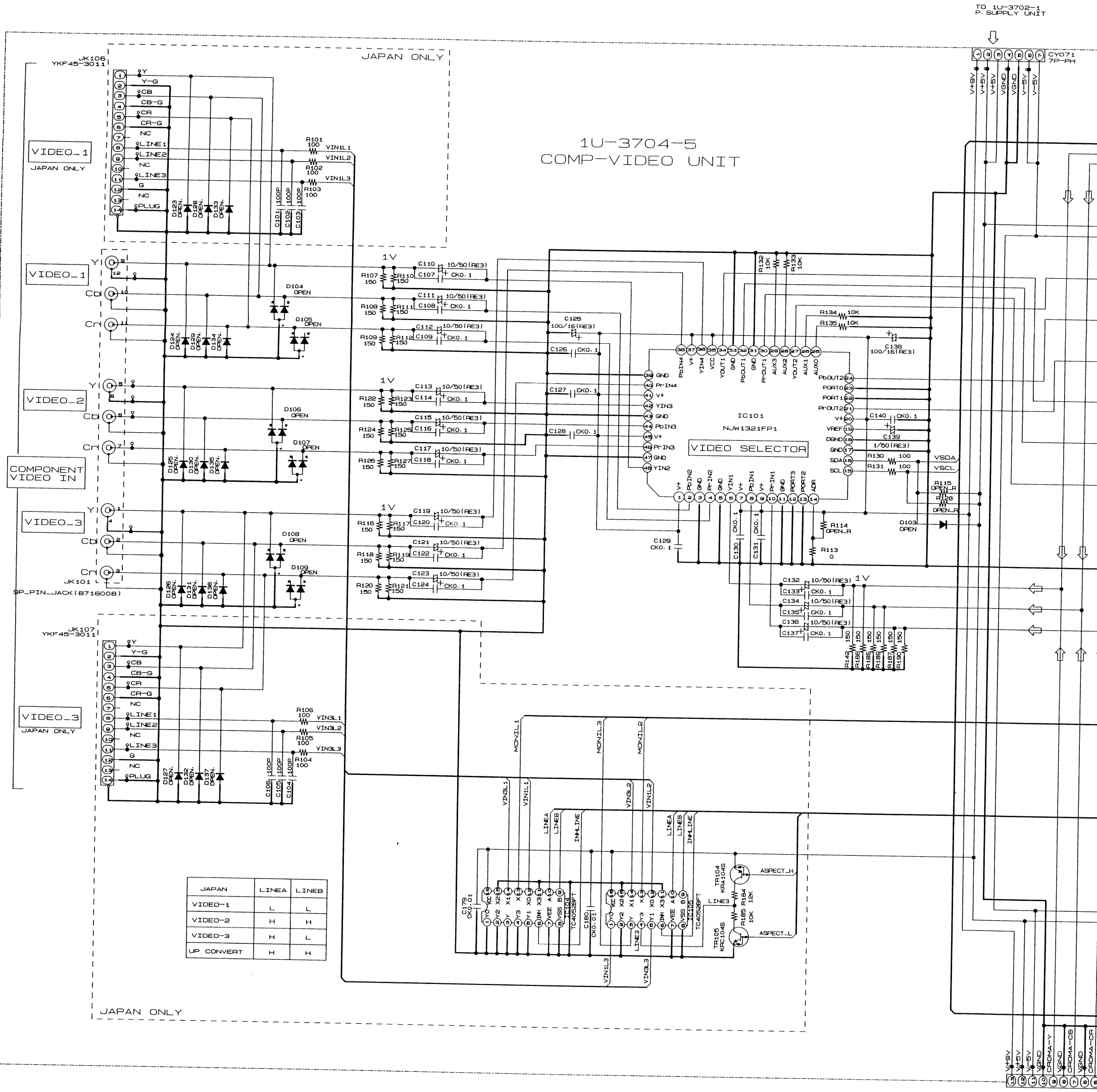
MODE | ANALOG | EXT. IN | SYSTEM SETUP | DOWN | SURR. BACK

SCHEMATIC DIAGRAMS (12/31)

1U-3703-1 FLD UNIT
1U-3703-2 FUNC. UNIT
1U-3703-3 P.KEY UNIT
1U-3703-4 JOINT UNIT
1U-3703-5 TACT-1 UNIT
1U-3703-6 TACT-2 UNIT
1U-3703-7 VOL UNIT
1U-3703-8 P.SW UNIT
1U-3703-9 H/P UNIT

SCHEMATIC DIAGRAMS (13/31)

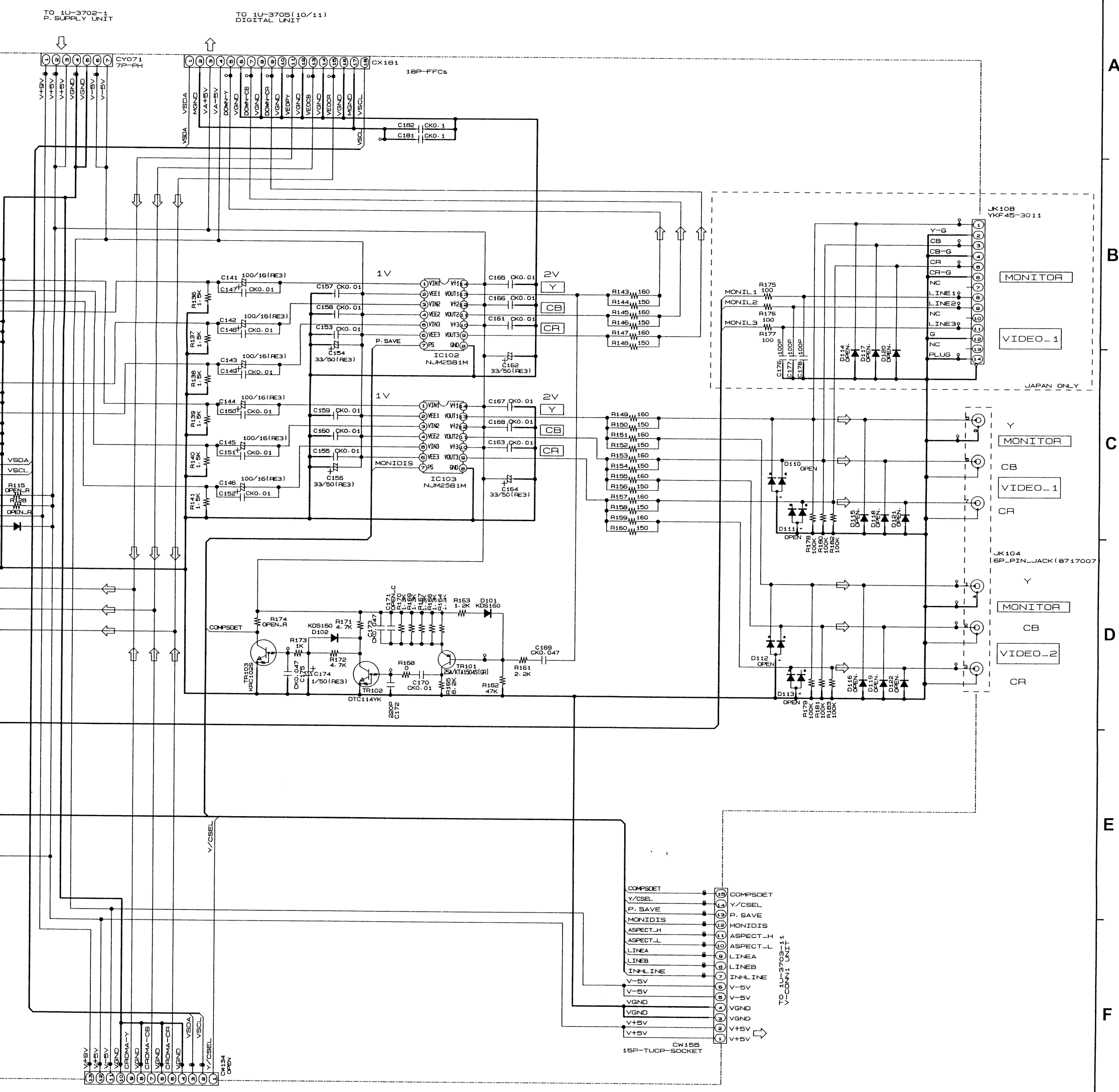
1 2 3 4 5 6



JAPAN	LINEA	LINEB
VIDEO-1	L	L
VIDEO-2	H	H
VIDEO-3	H	L
UP CONVERT	H	H

6 7 8 9 10 11

A B C D E F G H



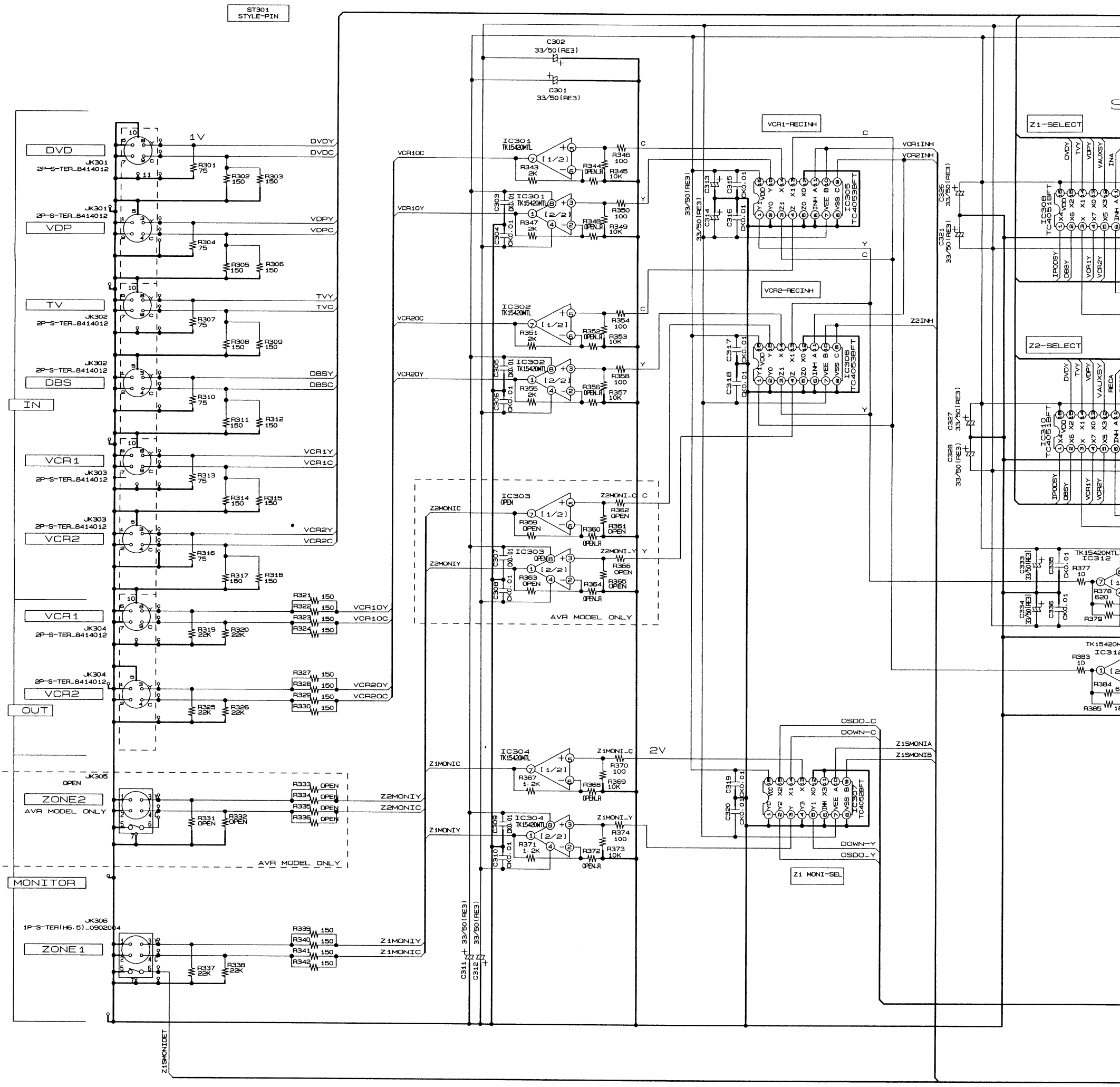
COMPONENT VIDEO

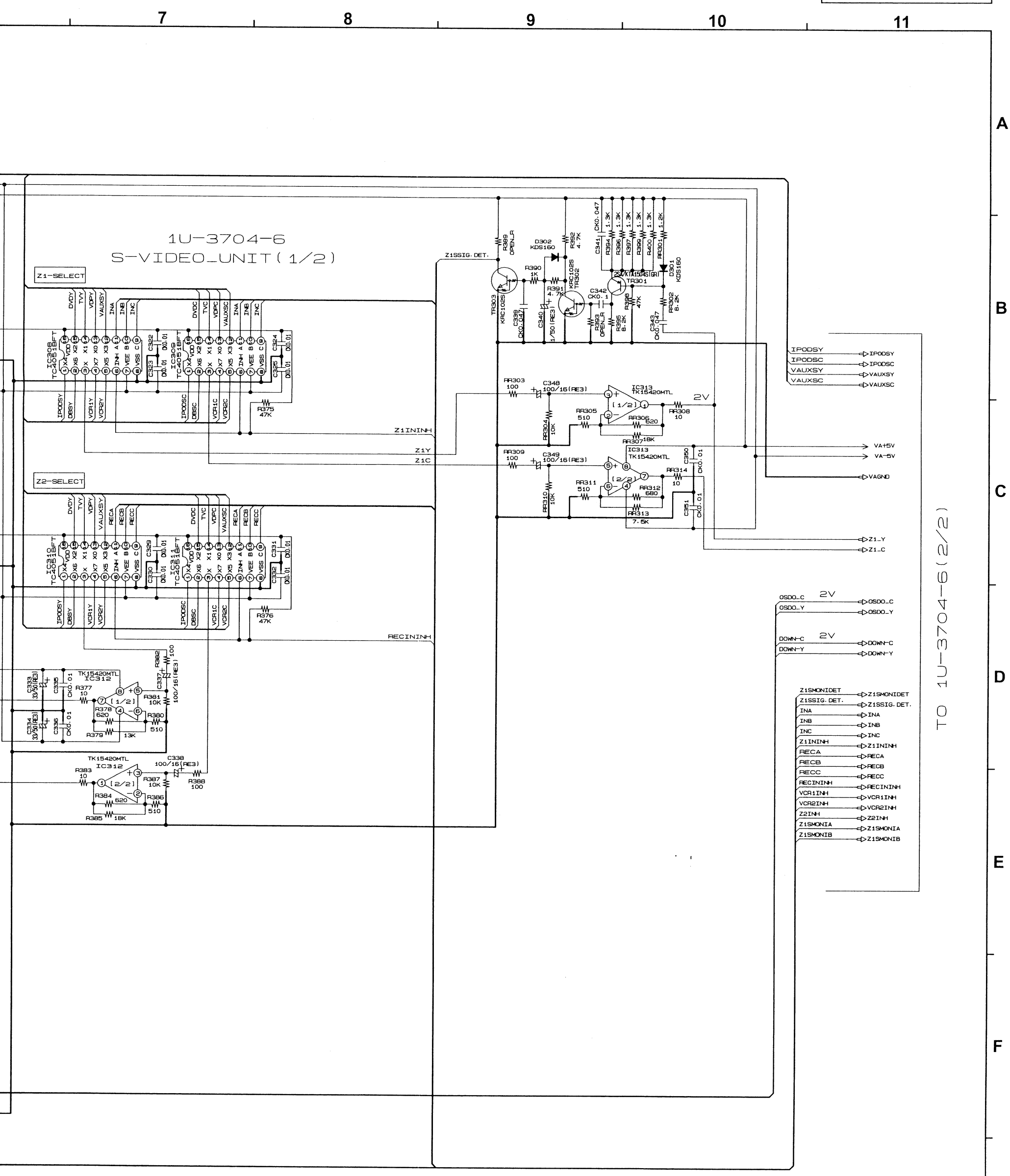
SCHEMATIC DIAGRAMS (13/31)

1U-3704-5 COMP-VIDEO UNIT

SCHEMATIC DIAGRAMS (14/31)

1 2 3 4 5 6





SCHEMATIC DIAGRAMS (14/31)

1U-3704-6 S-VIDEO UNIT(1/2)

2 3 4 5 6 7

	0	1	COM
Y	Z1SY	Z1CVBS	TO OSD
X	GND	OSDOUT	SYOUT
Z	Z1SC	GND	SCOUT

TO 1U-3704-6(1/2)

TO 1U-3703-12 V-CONN2 UNIT

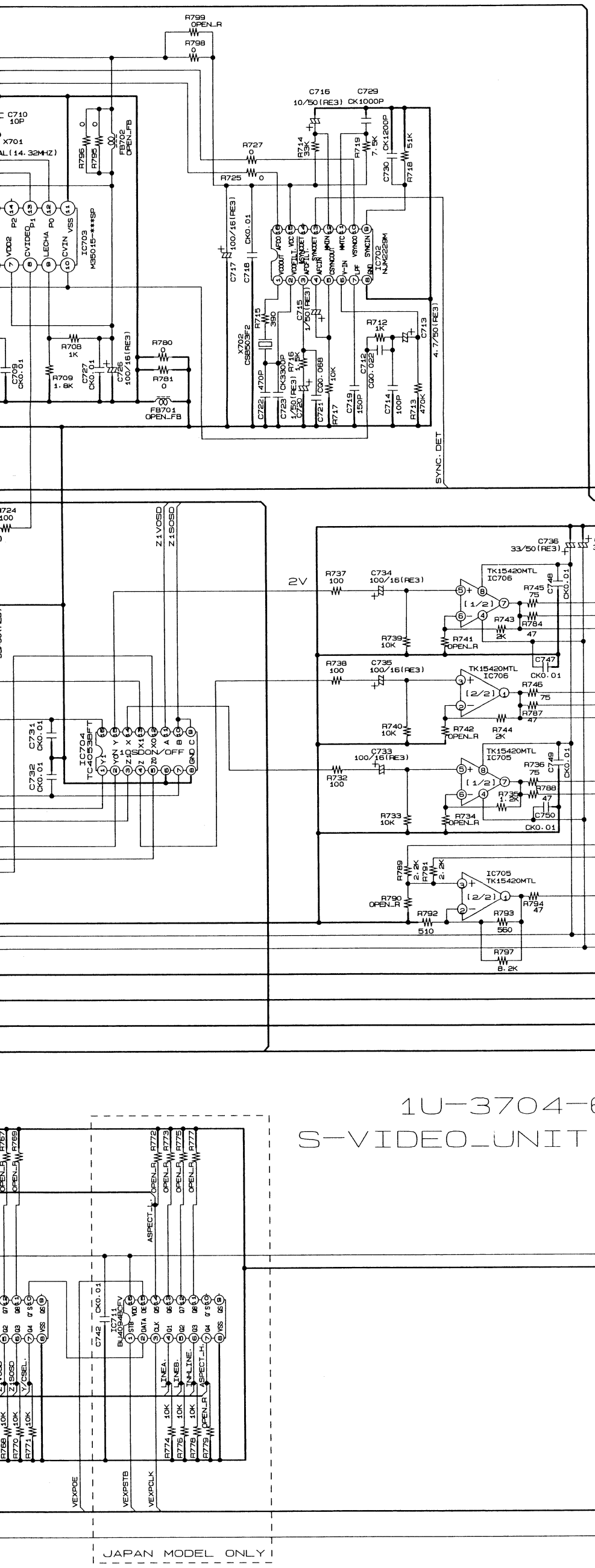
CW136
13P-SOCKET(9120)

CW144
14P-SOCKET(9120)

JAPAN MODEL ONLY

6 7 8 9 10 11

A B C D E F G H



SCHEMATIC DIAGRAMS (15/31)

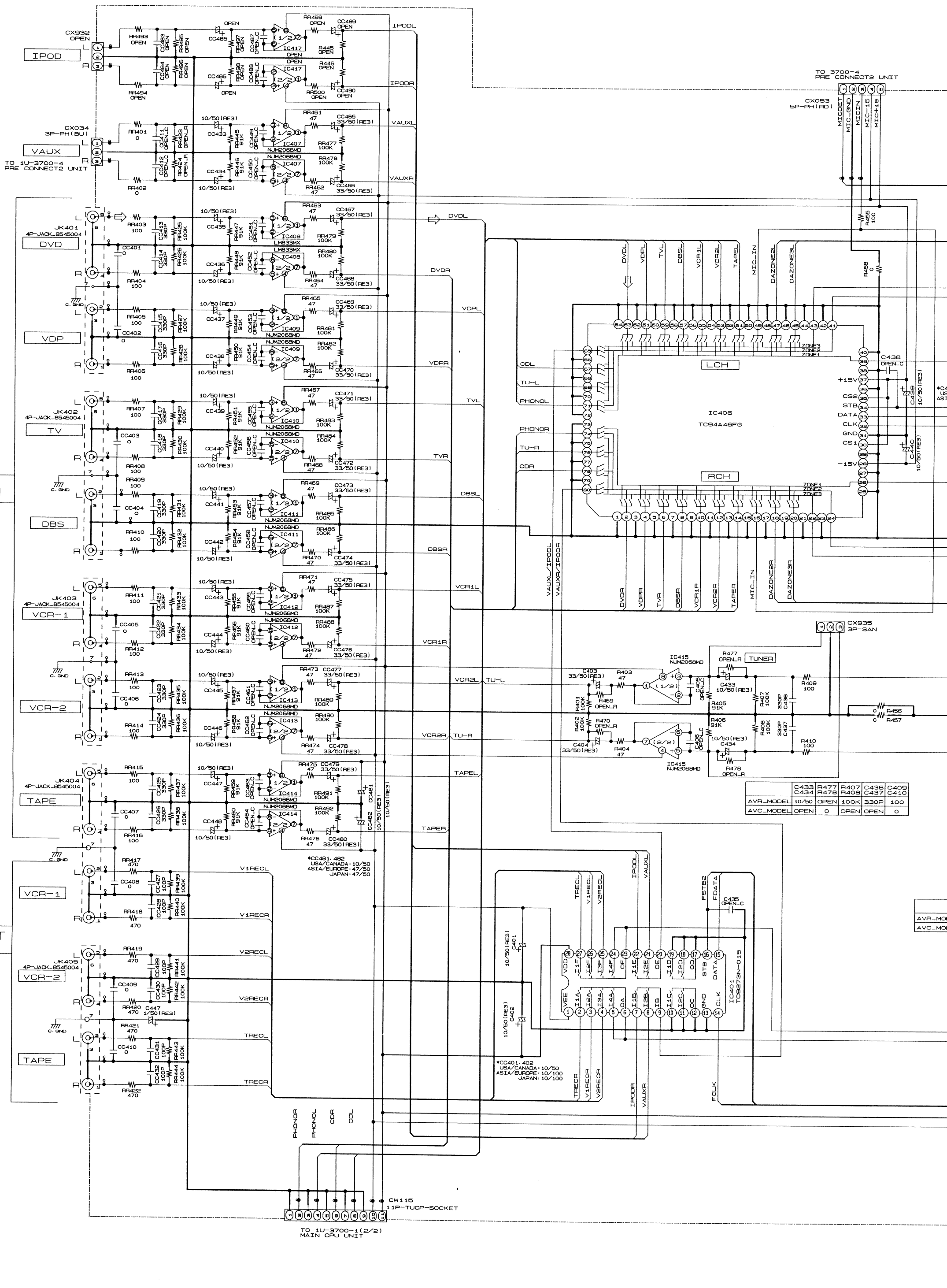
1U-3704-6 S-VIDEO UNIT(2/2)

SCHEMATIC DIAGRAMS (16/31)

1 2 3 4 5 6

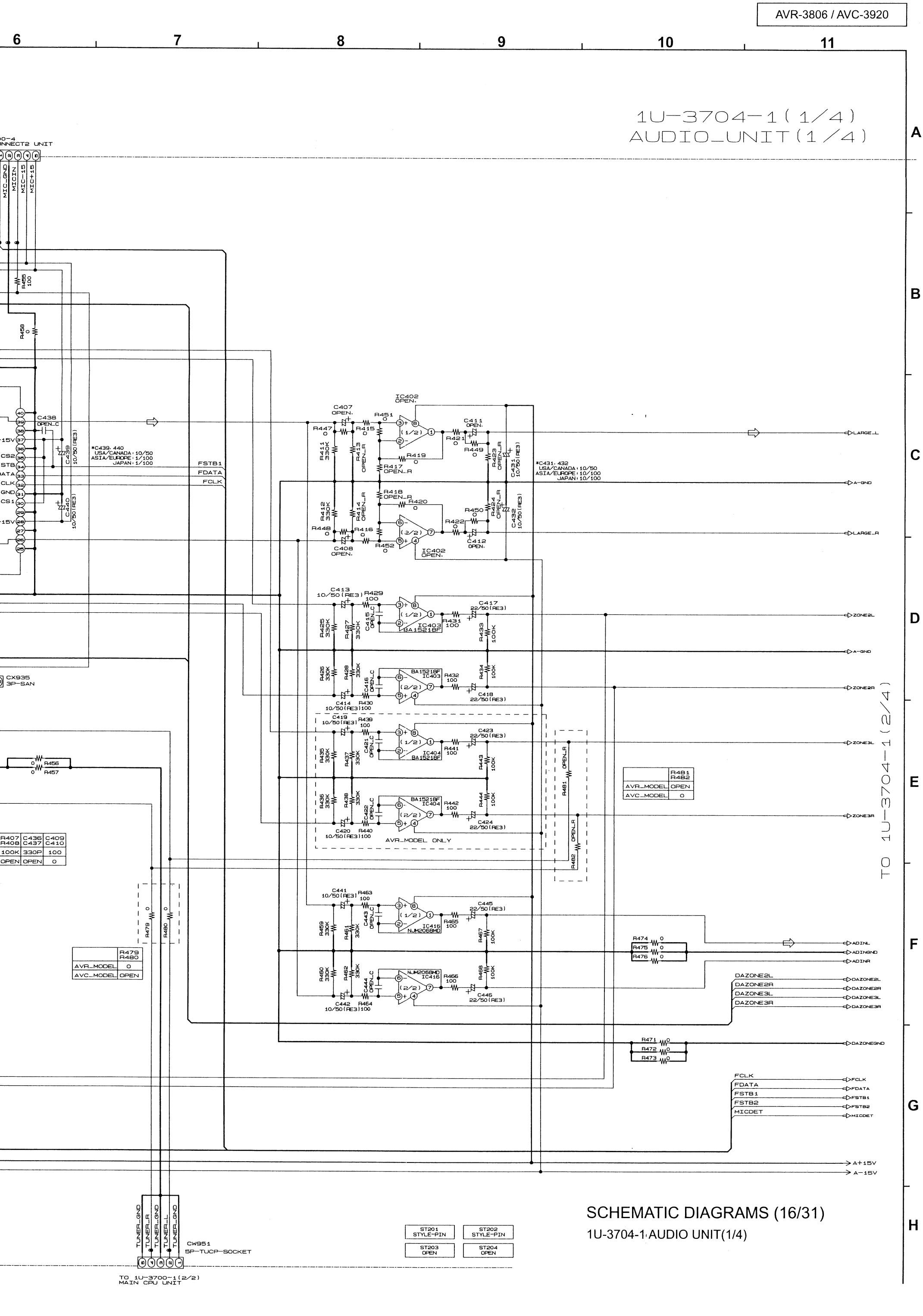
IN

OUT



	C433 C434	R477 R478	R407 R408	C436 C437	C409 C410
AVR_MODEL	10/50	OPEN	100K	330P	100
AVC_MODEL	OPEN	0	OPEN	OPEN	0

1U-3704-1(1/4)
AUDIO_UNIT(1/4)



	R481 R482
AVR_MODEL	OPEN
AVC_MODEL	0

	R407 R408	C436 C437	C409 C410
AVR_MODEL	100K	330P	100
AVC_MODEL	OPEN	OPEN	0

	R479 R480
AVR_MODEL	0
AVC_MODEL	OPEN

SCHEMATIC DIAGRAMS (16/31)

1U-3704-1 AUDIO UNIT(1/4)

SCHEMATIC DIAGRAMS (17/31)

1 2 3 4 5 6

TO 1U-3704-1(1/4)

DA_SL
DA_FL
DA_FR
DA_SR
DA_SBL
DA_C
DA_SW
DA_SBR

TR501-504 KTC2875B
TR505-508 KTC2875B
TR509-512 KTC2875B
TR513-516 KTC2875B
TR517-520 KTC2875B
TR521-524 OPEN
TR525-528 KTC2875B

22/50(RE3)
0.1/50(RE3)

SL FL FR SR SBL C SW SBR Z2L Z2R Z3L Z3R AD AD

AVR_MODEL ONLY
AVR4306 ONLY

LARGE_L
A-GND
LARGE_R
ZONE2L
ZONE2R
ZONE3L
ZONE3R
A-GND
ADINL
ADINGND
ADINR
DAZONE2L
DAZONE2R
DAZONE3L
DAZONE3R
DAZONEGND
FCLK
FDATA
FSTB1
FSTB2
MICDET
A+15V
A-15V
ADMUTE

R594 OPEN_R
R595 OPEN_R
R596 OPEN_R

EXTIN-FR
EXTIN-FL
EXTIN-SW
EXTIN-C
EXTIN-SR
EXTIN-SL
EXTIN-SBR
EXTIN-SBL

DAZ3MUTE
DAZ2MUTE
DAZ2L
DAZ2R
DAZ3L
DAZ3R

A+15V
A+15V
A-15V
A-15V
ADGND
ADINL
ADGND
ADINR
ADGND
DASLFLMUTE

TO 1U-3703-14
EXT.CONNECT UNIT

15P-TUCP-SOCKET
CW156

TO 1U-3700-1(2/2)
MAIN CPU UNIT

11P-TUCP-SOCKET
CW116

TO 1U-3700-1(2/2
MAIN CPU UNIT

6 7 8 9 10 11

A B C D E F G H

1U-3704-1(2/4)
AUDIO UNIT(2/4)

RR519 0
RR520 0
RR521 0
RR522 OPEN_R
RR523 OPEN_R
RR524 OPEN_R

VOLINFL VOLINC VOLINSL VOLINSBL

LARGE_L DA_FL EXTIN-FL DA_C EXTIN-C DA_SL EXTIN-SL BI-AMPL DA_SBL EXTIN-SBL ZONE2L ZONE3L

FCLK

C522 OPEN_C

IC501 TC9274N-017

FDATA
FSTB2

LARGE_R DA_FR EXTIN-FR DA_SW EXTIN-SW DA_SR EXTIN-SR BI-AMPR DA_SBR EXTIN-SBR ZONE2R ZONE3R

VOLINFR VOLINSW VOLINSR VOLINSBR

*C525, 526
USA/CANADA : 10/50
ASIA/EUROPE : 10/100
JAPAN : 10/100

C523 OPEN_C
C524 OPEN_C
C525
C526
10/50(RE3)

A-GND

VOLINSL → VOLINSL
VOLINFL → VOLINFL
VOLINFR → VOLINFR
VOLINSR → VOLINSR
VOLINSBL → VOLINSBL
VOLINC → VOLINC
VOLINSW → VOLINSW
VOLINSBR → VOLINSBR

TO 1U-3704-1(3/4)

ZONE2L → ZONE2L
ZONE2R → ZONE2R
ZONE3L → ZONE3L
ZONE3R → ZONE3R
A-GND

TO 1U-3704-1(3/4)

FCLK → FCLK
FDATA → FDATA
FSTB1 → FSTB1
FSTB2 → FSTB2
ADMUTE → ADMUTE
MICDET → MICDET

A+15V → A+15V
A-15V → A-15V

PEN_R
PEN_R
PEN_R

DAZ3R

A+15V A+15V A-15V A-15V ADGND ADINL ADGND ADINR ADGND DASLFLMUTE DAFRSRMUTE DASBLCMUTE DASBRSWMUTE

DASL DA-AGND DAFL DA-AGND DAFR DA-AGND DASR DA-AGND DASBL DA-AGND DAC DA-AGND DASW DA-AGND DASBR

11P-TUCP-SOCKET CW115

TO 1U-3700-1(2/2) MAIN CPU UNIT

13P-TUCP-SOCKET CW133

TO 1U-3700-1(2/2) MAIN CPU UNIT

15P-TUCP-SOCKET CW154

SCHEMATIC DIAGRAMS (17/31)

1U-3704-1 AUDIO UNIT(2/4)

SCHEMATIC DIAGRAMS (18/31)

1 2 3 4 5 6

	IC207 IC208 IC209 IC210	C205-208 C217-220 C231-234 C243-246	R209,210,213,214 R233,234,237,238 R257,258,261,262 R281,282,285,286	C211,212 C223,224 C237,238 C249,250
USA/DANADA	SA5532	3.3/50	OPEN	10/50
ASIA/EUROPE	AD8512	OPEN	0	10/100
JAPAN	AD8512	OPEN	0	10/100

TO 1U-3704-1(2/4)

A-GND
VOLINSL
VOLINFL
VOLINFR
VOLINSR
VOLINSBL
VOLINC
VOLINSW
VOLINSBR
ZONE2L
A-GND
ZONE2R
ZONE3L
ZONE3R
FCLK
FDATA
FSTB1
FSTB2
ADMUTE
MICDET
A+15V
A-15V

R297 0 R298 0 R299 0

R219 0 R220 0 R221 0
R243 0 R244 0 R245 0
R267 0 R268 0 R269 0
R291 0 R292 0 R293 0

R201 100K R203 100K R202 100K R204 100K
R225 100K R227 100K R226 100K R228 100K
R249 100K R251 100K R250 100K R252 100K
R273 100K R275 100K R274 100K R276 100K

C201 22/50(RE3) C202 22/50(RE3)
C213 22/50(RE3) C214 22/50(RE3)
C227 22/50(RE3) C228 22/50(RE3)
C239 22/50(RE3) C240 22/50(RE3)

E.VOL_CLK
E.VOL_DATA
E.VOL_STBB

C225 OPEN_C
C226 OPEN_C
C251 OPEN_C
C252 OPEN_C

IC201 TC9459BFG
IC202 TC9459BFG
IC203 TC9459BFG
IC204 TC9459BFG

C205 3.3/50(RE3)
C203 47/25(RE3)
R209 OPEN_A
R205 OPEN_A
R207 130K
R211 470K
R213 OPEN_A
C207 3.3/50(RE3)
C209 5P
R215 470K
IC207 SA5532ADA [1/2]
R217 100
W201
SL
C211 10/50(RE3)
C212 10/50(RE3)
R222 0 R223 0 R224 0
C208 3.3/50(RE3)
R216 470K
R214 OPEN_A
C210 5P
IC207 SA5532ADA [2/2]
R218 100
FL
C204 47/25(RE3)
C206 3.3/50(RE3)
W202

C217 3.3/50(RE3)
C215 47/25(RE3)
R233 OPEN_A
R229 OPEN_A
R231 130K
R235 470K
R237 OPEN_A
C219 3.3/50(RE3)
C221 5P
R239 470K
IC208 SA5532ADA [1/2]
R241 100
W203
FR
C223 10/50(RE3)
C224 10/50(RE3)
R246 0 R247 0 R248 0
C220 3.3/50(RE3)
R240 470K
R238 OPEN_A
C222 5P
IC208 SA5532ADA [2/2]
R242 100
SR
C216 47/25(RE3)
C218 3.3/50(RE3)
W204

C231 3.3/50(RE3)
C229 47/25(RE3)
R257 OPEN_A
R253 OPEN_A
R255 130K
R259 470K
R261 OPEN_A
C233 3.3/50(RE3)
C235 5P
R263 470K
IC209 SA5532ADA [1/2]
R265 100
W205
SBL
C237 10/50(RE3)
C238 10/50(RE3)
R270 0 R271 0 R272 0
C234 3.3/50(RE3)
R264 470K
R262 OPEN_A
C236 5P
IC209 SA5532ADA [2/2]
R266 100
C
C230 47/25(RE3)
C232 3.3/50(RE3)
W206

C243 3.3/50(RE3)
C241 47/25(RE3)
R281 OPEN_A
R277 OPEN_A
R279 130K
R283 470K
R285 OPEN_A
C245 3.3/50(RE3)
C247 5P
R287 470K
IC210 SA5532ADA [1/2]
R289 100
W207
SW
C249 10/50(RE3)
C250 10/50(RE3)
R294 0 R295 0 R296 0
C246 3.3/50(RE3)
R288 470K
R286 OPEN_A
C248 5P
IC210 SA5532ADA [2/2]
R290 100
SBR
C242 47/25(RE3)
C244 3.3/50(RE3)
W208

AVR_MODEL ONLY

C253 10/50(RE3)
RA201 47K
RA202 47K
C254 10/50(RE3)
C255 OPEN_C
TC9459BFG
IC205
RA243 0 RA244 0 RA245 0
C261 10/50(RE3)
C257 100P
C258 100P
C262 10/50(RE3)
RA207 47K
RA208 47K
RA213 100
C265 OPEN_C
RA221 4.3K
RA215 820
C269 330P
RA216 820
C270 330P
C268 OPEN_C
RA222 4.3K
RA211 100
IC205 BA15218F [1/2]
IC205 BA15218F [2/2]
RA225 100
RA229 100K
RA230 100K
RA226 100K
C273 10/50(RE3)
C274 10/50(RE3)
RA236 0 RA237 0 RA238 0
ZONE2L
ZONE2R

RA251 0
C266 OPEN
RA203 OPEN_A
RA270 0
C256 OPEN_C
OPEN
IC211
RA246 0 RA247 0 RA248 OPEN_A RA249 OPEN_A RA250 OPEN_A
C263 OPEN
C259 OPEN_C
C260 OPEN_C
C264 OPEN
RA209 OPEN_A
RA210 OPEN_A
RA205 0
RA206 0
RA214 0
RA217 0
RA218 OPEN_A
C271 OPEN_C
RA219 OPEN_A
C272 OPEN_C
RA220 0
RA212 0
IC212 OPEN [1/2]
IC212 OPEN [2/2]
RA227 0
RA223 0
RA231 OPEN_A
RA232 OPEN_A
RA224 0
RA228 0
C275 OPEN
C276 OPEN
RA239 0 RA240 0 RA241 0
RA233 0 RA234 0 RA235 0
ZONE3L
ZONE3R
W209 OPEN
RA252 0
C267 OPEN
RA204 OPEN_A
RA271 0

AVR43060NLY

6 7 8 9 10 11

A B C D E F G H

1U-3704-1(3/4)
AUDIO_UNIT(3/4)

CW153
15P-TUCP-SOCKET

PREFL
PREGND
PREFR
PREGND
PREC
PREGND
PRESW
PREGND
PRESL
PREGND
PRESR
PREGND
PRESBL
PREGND
PRESBR

TO 1U-3702-4
PRE CONNECT UNIT

CW974
7P-TUCP-SOCKET

PREZ2L
PREGND
PREZ2R
PREGND
PREZ3L
PREGND
PREZ3R

TO 1U-3702-4
PRE CONNECT UNIT

AMPGND → AMPGND
AMPFL → AMPFL
AMPFR → AMPFR
AMPC → AMPC
AMPSL → AMPSL
AMPSR → AMPSR
AMPSBL → AMPSBL
AMPSBR → AMPSBR

TO 1U-3704-1(4/4)

PRERETGND
A+15V
A-15V
HIGH+B

TO 1U-3704-1(4/4)

ASIGDET
A+BLIMIT
LIMIT

ASIGDET1
MICDET
ADMUTE
FSTB2
FSTB1
FDATA
FCLK
E.VOL_CLK
E.VOL_DATA
E.VOL_STBA
E.VOL_STBB
A+BLIMIT
LIMIT
PRECPUGND
PRECPUGND
HIGH+B(MUTE)

16P-TUCP-SOCKET
CW162

TO 1U-3700-1(2/2)
MAIN CPU UNIT

W501 OPEN
W502 OPEN

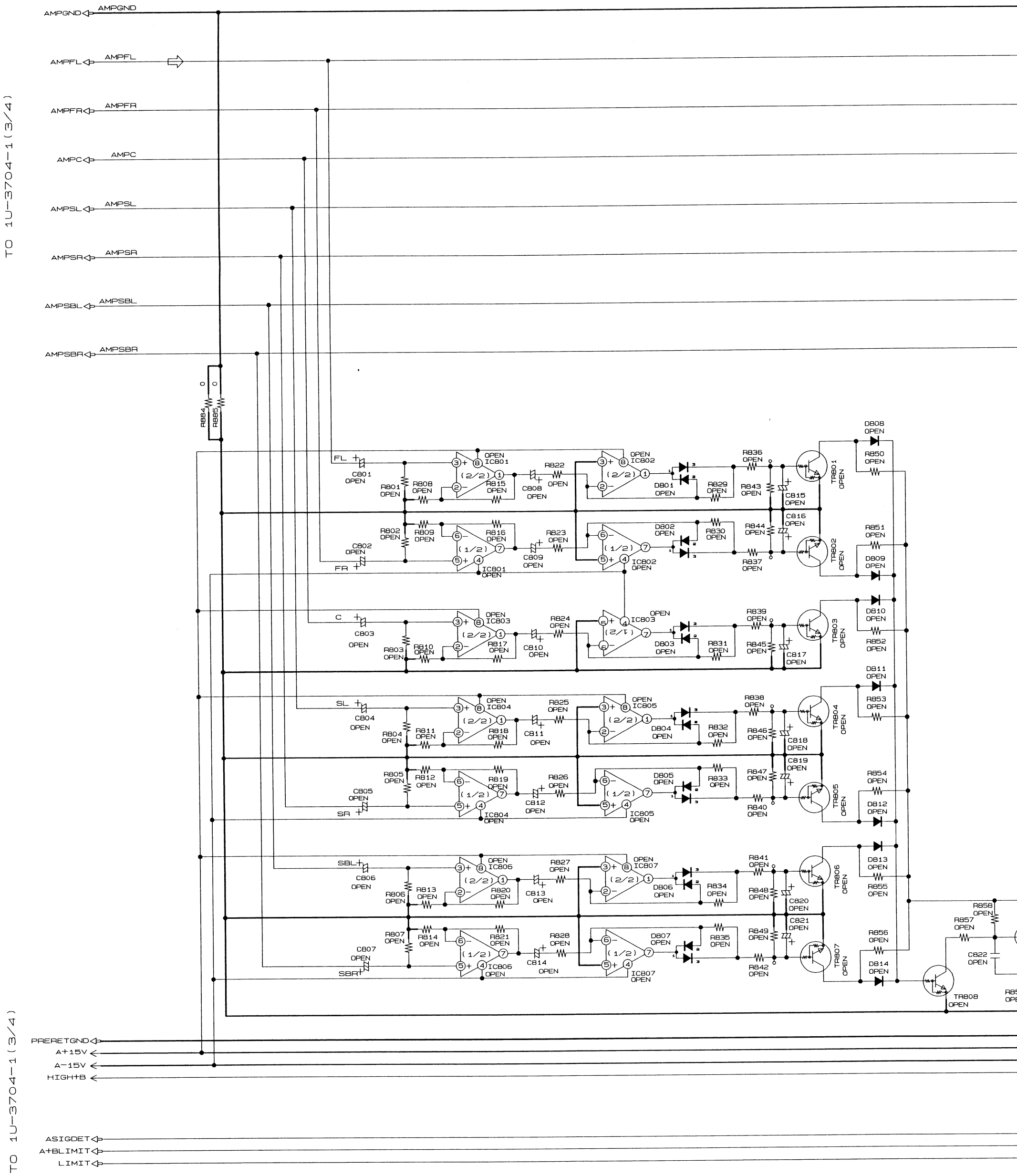
AR233
AR234
AR235

SCHEMATIC DIAGRAMS (18/31)

1U-3704-1 AUDIO UNIT(3/4)

SCHEMATIC DIAGRAMS (19/31)

1 2 3 4 5 6



6 7 8 9 10 11

1U-3704-1(4/4)
AUDIO UNIT(4/4)

D823 RB501V-40
D816 RB501V-40
D824 RB501V-40
D817 RB501V-40
D825 RB501V-40
D818 RB501V-40
D826 RB501V-40
D819 RB501V-40
D827 RB501V-40
D820 RB501V-40
D828 RB501V-40
D821 RB501V-40
D829 RB501V-40
D822 RB501V-40

CX145
14P-FJ-BASE
AMPGND 1
AMPFL 2
AMPGND 3
AMPFR 4
AMPGND 5
AMPC 6
AMPGND 7
AMPSL 8
AMPGND 9
AMPSR 10
AMPGND 11
AMPSBL 12
AMPGND 13
AMPSBR 14
TO 1U-3700-4 PRE CONNECT2 UNIT

CX914
11P-FJ-BASE
A+15V 1
A+15V 2
A-15V 3
A-15V 4
PRERETGND 5
PRERETGND 6
MUTEBGND 7
MUTEBGND 8
LIMIT+B 9
HIGH+B 10
11
TO 1U-3700-4 PRE CONNECT2 UNIT

	R875	R876
AVR3806	39	1.1K
AVC3920	0	1.5K

D808 OPEN
R850 OPEN
R851 OPEN
D809 OPEN
D810 OPEN
R852 OPEN
D811 OPEN
R853 OPEN
R854 OPEN
D812 OPEN
D813 OPEN
R855 OPEN
R856 OPEN
D814 OPEN
TR808 OPEN
R857 OPEN
R858 OPEN
C822 OPEN
TR809 OPEN
R859 OPEN
ZD801 OPEN
C823 OPEN
R860 OPEN_R
R861 0
R862 OPEN
R863 OPEN
R864 OPEN

TR812 2SA/KTA1268BL
R870 10K
R871 10K
R868 10K
R869 10K
TR810 2SC/KTC3200BL
R874 510
R875 39
R876 1.1K
TR814 2SA/KTA1268BL
TR815 2SA/KTA1268BL
R872 2.2K
C825 4.7/50(RE3)
R877 22K(NB)
R879 560K
R873 560K
R865 2.2K
R866 2.2K
C824 CK0.01
TR813 2SD2144
R878 3.6K
TR816 2SC/KTC3200BL
R881 10K
R880 10K
D815 KDS160
R867 2.2K
C827 2.2/50(RE3)
C826 CK0.01
TR811 2SA/KTA1268BL
R882 OPEN_R
R883 OPEN_R

SCHEMATIC DIAGRAMS (19/31)

1U-3704-1 AUDIO UNIT(4/4)

D. LINK INPUT

JK902
JACK_1222000

F_EXTIN
F_EXTIN
DLACK
C_EXTIN
C_EXTIN
DLACK
S_EXTIN
S_EXTIN

C932 OPEN_C
C933 OPEN_C
C934 OPEN_C

D903
OPEN

R931
0

W904
M3-TERMINAL-SIDE

W905
OPEN

1U-3704-2
D. LINK_UNIT
AVR3806 ONLY

R932 100
R933 100
R934 100

ZD904 NSAD500F
ZD903 NSAD500F
ZD902 NSAD500F
ZD901 NSAD500F

C937 10/50(RE3)
C935 100P
C936 CK1000P

IC914
SN65LVDS32PW
1B VCC
1A 4B
1Y 4A
G 4Y
2Y G 3Y
2A 3Y
2B 3A
GND 3B

R936 100
R937 10K
R935 100
R938 100
R939 100
C938 100P
C939 CK1000P

IC915
SN65LVDS1DBV
VCC
GND
IN

DLACK.

DL2
DL1
DLINK_ON
DL3

CW117
11P-TUCP-SOCKET

TO 1U-3701-1(2/2)
MAIN CPU UNIT

TO 1U-3705(4/11)
DIGITAL UNIT

OPEN
CY937A

CY937
3P-ZH(SMD)

1U-3704-8
DSP_REG. UNIT

IC901
PQ012FZ01ZP
IN
OUT
BIAS
GND
ON

C907 330/6.3
C901 10/10(TA)
C902 100P
C903 100P
RR901 10K
C904 330/6.3
C905 10/10(TA)
C906 100P
RR902 4.7K

CW118
11P-TUCP-SOCKET

TO 1U-3701-1(2/2)
MAIN CPU UNIT

FRONT V. AUX

FRONT V. AUX

CVBS
LCH
RCH

JK904
3P-JACK_8693008

IC916
GP1FM313RZ
OPT-5
VCC
GND
Vout

FRONT V. AUX

FRONT MICIN

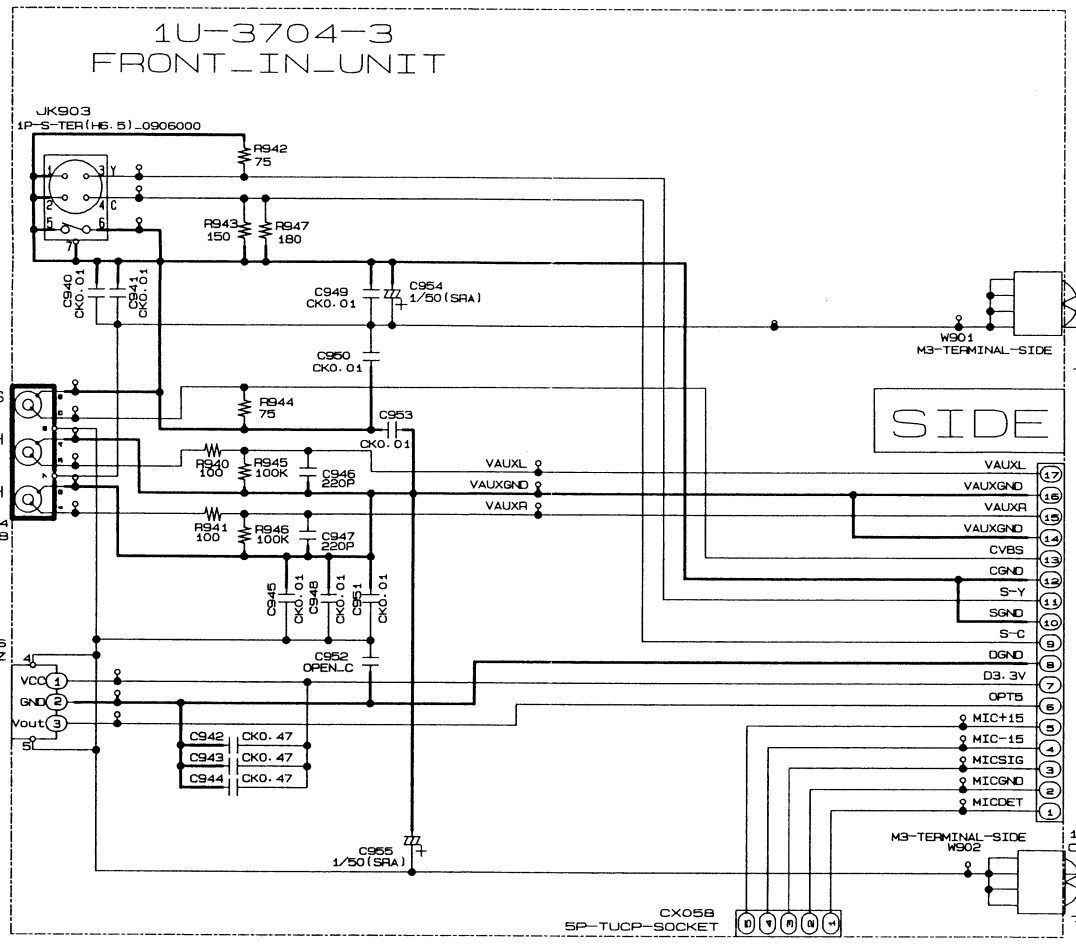
JK905
MINI JACK

1U-
MI

6 7 8 9 10 11

A B C D E F G H

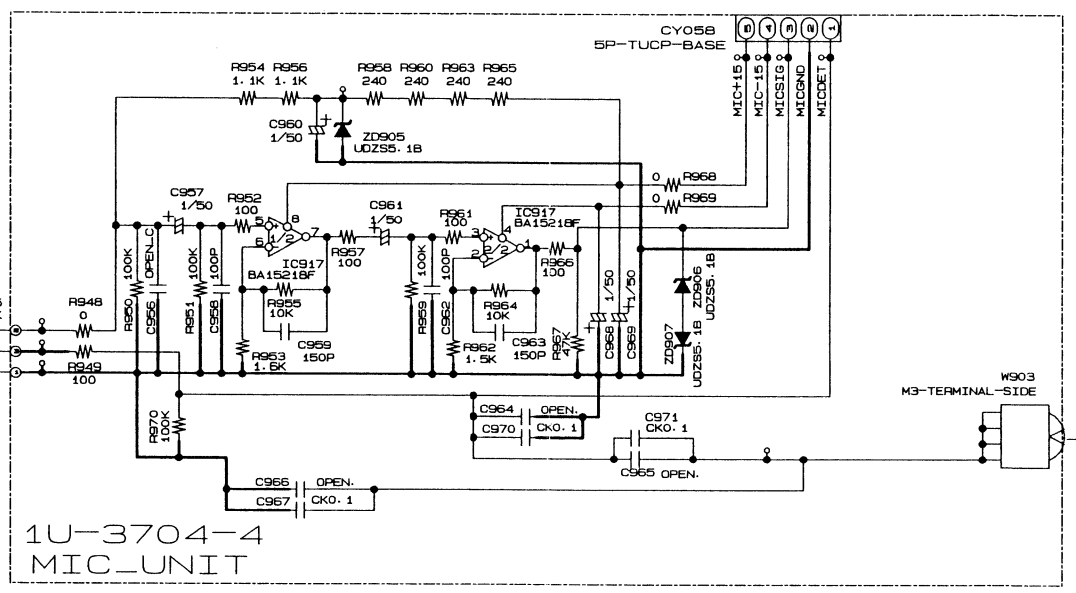
FRONT
V. AUX



FRONT
V. AUX

FRONT
V. AUX

FRONT
MICIN

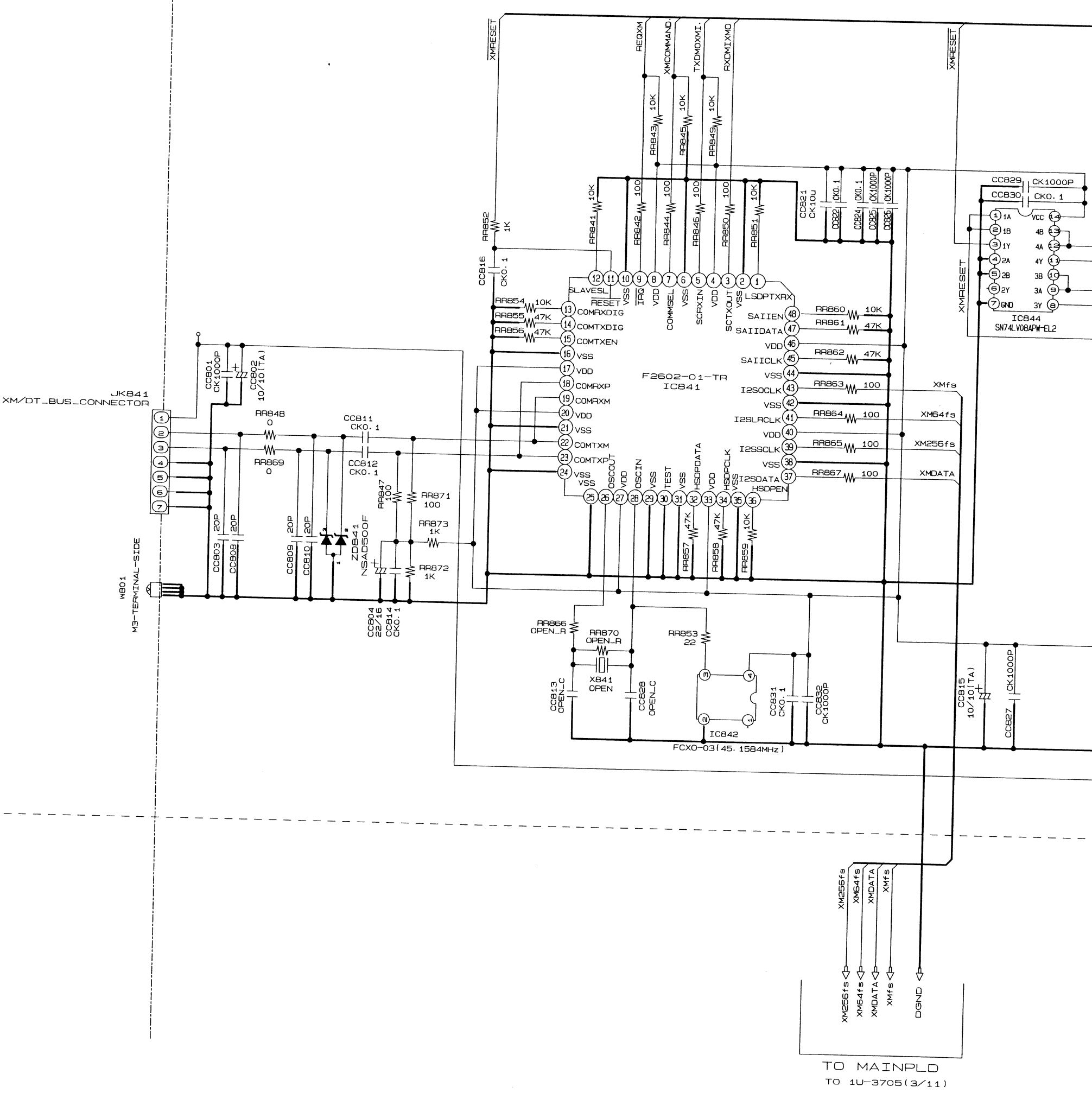


SCHEMATIC DIAGRAMS (20/31)

1U-3704-2 D.LINK UNIT
1U-3704-3 FRONT IN UNIT
1U-3704-4 MIC UNIT
1U-3704-8 DSP REG. UNIT

1 2 3 4 5 6

USA/CANADA MODEL OMLY



6 7 8 9 10 11

A B C D E F G H

1U-3705
DIGITAL_UNIT
(1/11)

XMRESET

CC829 CK1000P
CC830 CKO. 1

IC844
SN74LV08APW-EL2
1A 1B 1Y 2A 2B 2Y GND
VCC 4B 4A 4Y 3B 3A 3Y

TXDMOXMI.
XMCOMMAND.
REQXM
RXDMIXMO

XMfs
XM64fs
XM256fs
XMDATA

CC815
10/10(TA)
CC827 CK1000P

CY032
3P-ZH(SMD)
XMSCPU3.3V
XM5.3V
XMGND
TO 3702-1
P.SUPPLY UNIT

CC818 CK1000P
CC834 CKO. 1
CC835 CKO. 1

RXDMIXMO
TXDMOXMI
XMCOMMAND
REQXM
XMRESET
MGND
XMSCPU3.3V

TO SUBCPU
TO 1U-3705(5/11)

XMfs
DGND

INPLD
705(3/11)

XM RADIO SECTION(1/1)

SCHEMATIC DIAGRAMS (21/31)
1U-3705 DIGITAL UNIT(1/11)

1U-3705
DIGITAL_UNIT
(2/11)

CW911
11P-SOCKET(9120)

TO 3700-1
MAIN CPU UNIT

DLINK_ON
DL1
DL2
DL3
DLACK.

CW968
6P-SOCKET(9120)

D. IN
ZONE2
ZONE3
DREC
DGND
D3.3V
DIN
DZONE2
DZONE3
DREC

CW112
11P-SOCKET(9120)

DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
DZ3INH

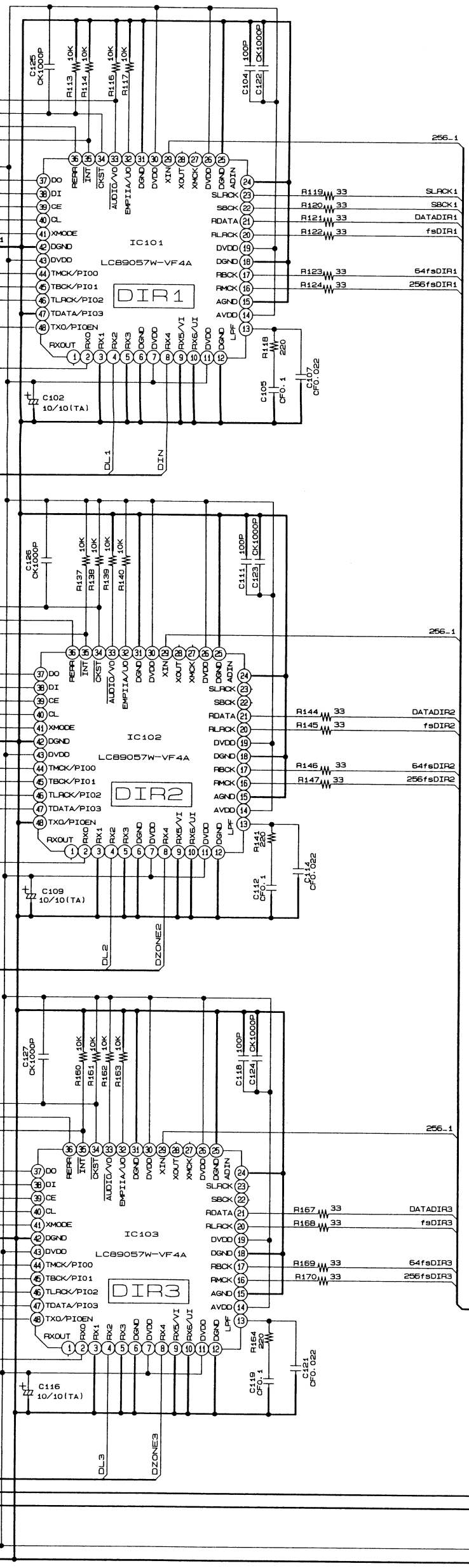
TO SUBCPU
TO 1U-3705(5/11)

DLINK_ON DINA DINB DINC DRECA DRECB DRECC DRECINH
DIRAST1 DIRAST2 DIRAST3 INT1 INT2 INT3 DIRDOUT DIRDIN DIRCE DIRCLK DIR1CKST DIR2CKST DIR3CKST

AUDIO1
DIR1CKST
DIR1PERR
INT1
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST1
R101 2.2K
R112 3.3K
R102 33
R174 1K
C101 CKO.1
256fsDIT1
64fsDIT1
fsDIT1
DLACK.
R110 33
DIR1IN
C102 10/10(TA)
C125 CK1000P
R113 10K
R114 10K
R115 10K
R117 10K
DO DI CE CL XMODE DGND DVDD TMCK/PIO0 TBCK/PIO1 TLRCK/PIO2 TDATA/PIO3 TXO/PIOEN
RXOUT RX0 RX1 RX2 RX3
PERR INT CKST AUDIO/VO EMPIIA/UO
LC8905
DL1

DIR2CKST
DIR2PERR
INT2
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST2
R125 2.2K
R126 33
R175 1K
C108 CKO.1
DZ3INH
DZ3A
DZ3B
DZ3C
R103 OPEN_R
R104 OPEN_R
R105 OPEN_R
R106 OPEN_R
DIR2IN
C109 10/10(TA)
C126 CK1000P
R137 10K
R138 10K
R139 10K
R140 10K
DL2

DIR3CKST
DIR3PERR
INT3
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST3
R148 2.2K
R149 33
R176 1K
C115 CKO.1
256fsDIT3
64fsDIT3
fsDIT3
DATADIT3
DREC
R157 33
DIR3IN
C116 10/10(TA)
C127 CK1000P
R160 10K
R161 10K
R162 10K
R163 10K
DL3



DIR SECTION(1/1)

SCHEMATIC DIAGRAMS (22/31)

1U-3705 DIGITAL UNIT(2/11)

1 2 3 4 5 6

1U-3705 DIGITAL_UNIT (3/11)

TO DSP
TO 1U-3705(4/11)

TO XM
TO 1U-3705(1/11)

TO DIR
TO 1U-3705(2/11)

IC151
EPM3128ATC144-10

TO SUBCPU
TO 1U-3705(5/11)

TO HDMI
TO 1U-3705(11/11)

6 7 8 9 10 11

A B C D E F G H

/11)

DSPOUTS1 DSPINCSW1 DSPINFR1

D3.3V DGND

TCK

DSPINFS DSPOUT64FS DSPOUTSW1 DSPOUTC1 DSPOUTFR1 DSPOUTF1 DSPINSB1 DSPINS1 DSPINC1 DSPINF1

AR140 AR144 AR105 AR154 AR155 AR158 AR160 AR182 AR183 AR181 100

I/O92 I/O91 NC90 TCK89 I/O88 I/O87 I/O86 GNDI/O85 I/O84 I/O83 I/O82 I/O81 I/O80 I/O79 I/O78 GNDI/O77 VCCI/O76 NC75 I/O74 VCCI/O73

I/O72	AR180 100		256fsZ3
I/O71	AR184 100		DACMUTEZ3
I/O70	AR177 100		fsZ2
I/O69	AR178 100		DATAZ2
I/O68	AR176 100		64fsZ2
I/O67	100 AR175		256fsZ2
NC66			
I/O65	AR179 100		DACMUTEZ2
GNDI/O64			
I/O63	AR197 100		DACMUTE
I/O62	AR198 100		PCMSW_SBR/DSDSW
I/O61	AR199 100		fs/DSD_SBR
I/O60	AR200 100		PCMSBL_C/DSDSBL
GNDI/O59			
VCCINT58			
GNDINT57			
I/O56	AR201 100		fs/DSD_C
I/O55	AR202 100		PCMFR_SR/DSDFR
I/O54	AR203 100		fs/DSD_SR
I/O53	AR204 100		PCMSL_FL/DSDSL
GNDINT52			
VCCINT51			
VCCI/O50			
NC49			
NC48			
NC47			
NC46			
I/O45	AR205 100		fs/DSD_FL
I/O44	AR206 100		64fs/GND1
NC43			
I/O42	AR207 100		256/64fs1
I/O41			ADFDATA
I/O40			64fsAD
I/O39			fsAD
I/O38			256fsAD
I/O37			

fsZ3
DATAZ3
64fsZ3

C151
BATC144-10

GNDI/O 17 I/O 18 NC 19 TMS 20 I/O 21 I/O 22 I/O 23 VCCI/O 24 I/O 25 GNDI/O 26 I/O 27 I/O 28 I/O 29 I/O 30 I/O 31 I/O 32 GNDI/O 33 NC 34 NC 35 NC 36

AR103 100

PLDCLK PLDDATA PLDCSMAIN

TMS SD2 SPDIF SD3

FB152 EMIFIL(11A121)

CC172 10/10(TA) CC173 CK1000P CC174 100P

AR133 100

VDD OUT VSS

IC152 FCXO-03(24.576MHZ)

AR135 0

TCK TDOHDMI TMS TDI

AR217 1K AR218 1K AR219 1K

CX152 7P-FFC(9610SC)

T.P

TDI→TDOMAIN
→TDOHDMI

FB151 ZBFS5105-PT

CC168 100P CC169 CK1000P CC170 CK1000P CC171 100P

D3.3V D3.3V DGND DGND DA+5V DARETGND

CY061 6P-PH(SMT)

TO 1U-3702-1 P.SUPPLY UNIT

DA+5 D/AGND

TO DAC
TO 1U-3705(6/11)

256fsZ2 64fsZ2 DATAZ2 fsZ2 DACMUTEZ2 256fsZ3 64fsZ3 DATAZ3 fsZ3 DACMUTEZ3

TO ZONE DAC
TO 1U-3705(7/11)

DACMUTE PCMSW_SBR/DSDSW fs/DSD_SBR PCMSBL_C/DSDSBL fs/DSD_C PCMFR_SR/DSDFR fs/DSD_SR PCMSL_FL/DSDSL fs/DSD_FL 64fs/GND1 256/64fs1

ADFDATA 64fsAD fsAD 256fsAD

TO DAC
TO 1U-3705(6/11)

MAIN PLD SECTION(1/1)

SCHEMATIC DIAGRAMS (23/31)

1U-3705 DIGITAL UNIT(3/11)

CHEMATIC DIAGRAMS (24/31)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)
DGND
D3.3V

CX937
3P-ZH(SMD)

D201
RB521S-30
DSP1.2V

C232 OPEN
C236 OPEN
RR264 OPEN
C250 100P
C251 10/10(TA)
RR277 4.7K
C201 470/6.3(P-CAP)

IC201
ADSP-21366SKBCZ

DSPAD0 R201 47
WR R202 47
DSPOUT64fs R203 47
DSPOUTSW1 R204 47
DSPAD15 R205 47
ALE R206 47
RD R207 47
DSPAD8 R208 47
C254 OPEN_C
DSPINCSW1
DSPOUTSB1 R210 47
DSPINfs R211 47
DSPAD14 R212 47
DSPAD13 R214 47
DSPAD12 R215 47
DSPAD11 R216 47
DSPAD10 R242 47
DSPAD9 R247 47
DSPINFR1
DSPOUTSI R278 47
R279 47K
R280 47K
R281 47K
R282 47K
DSPIN64fs R283 47
DSPOUTfs R284 47

R270 47 DSPOUTC1
R271 47 DSPAD1
R272 47 DSPAD2
R273 47 DSPOUTFR1
R274 47 DSPAD3
R275 47 DSPOUTF1
R276 47 DSPAD4
R285 47 DSPAD5
DSPINSB1
DSPINS1
R268 47 DSPAD5

DSPINC1
DSPAD7
R249 47 DSPINF1
R266 47
R267 47
R268 47
R269 10K

C205 100P CKO.01
C207 100P CKO.01
C211 100P CKO.01
C213 100P CKO.01
C215 100P CKO.01
C217 100P CKO.01
C222 CKO.01
C225 CKO.01
C228 CKO.01
C230 CKO.01
C233 CKO.01
C235 CKO.01
C206 100P CKO.01
C209 100P CKO.01
C212 100P CKO.01
C214 100P CKO.01
C216 100P CKO.01
C218 100P CKO.01
C223 CKO.01
C231 CKO.01
C234 CKO.01
C236 CKO.01

CX201
OPEN
TCK
GND
TDO
VCC
TMS
TRST
EMU0
EMU1
TDI
GND

RR265 OPEN_R
RR275 10K
DTCK
DTDO
DTMS
DTRST
DEMU0
DTDI
RR267 0
RR271 0
RR273 0
RR275 0

FCX0-03L(20.815MHz)
IC202
C203 CKO.01
C208 100P
C210 10/10(TA)
R236 10K
R235 47
R235 OPEN_R
RR260 10K
RR262 10K
R238 47
RR261 10K
RR264 10K
RR265 10K
R252 47K
C255 CKO.01
C256 CKO.01
C221 10/10(TA)
C224 100P
C227 CKO.01
R250 10

DTMS DTCK DTDI DTDO DEMU0 DTRST
DSPOSCON
DSPEMOSI DSPEMISO DSPEICS
DSPICLK DSPRST

IC206
TC74VHC573FT
C246 CKO.01
C247 100P
DSPAD0 DSPAD1 DSPAD2 DSPAD3 DSPAD4 DSPAD5 DSPAD6 DSPAD7
R217 100 AD8
R218 100 AD9
R219 100 AD10
R220 100 AD11
R221 100 AD12
R222 100 AD13
R223 100 AD14
R224 100 AD15
ALE

IC207
TC74VHC573FT
C248 CKO.01
C249 100P
DSPAD8 DSPAD9 DSPAD10 DSPAD11 DSPAD12 DSPAD13 DSPAD14 DSPAD15
R225 100 AD16
R226 100 AD17
R227 100 AD18
R228 100 AD19
R229 100 AD20
R265 100 AD21
R230 100 AD22
R231 100 AD23
ALE

IC205
SN74LVC139APWR
C252 CKO.01
C253 100P
R232 100 BANK0
R233 100 BANK1
R234 100 BANK2

IC208
LH28F160BJEBTL90
(LH28F160)
C219 100P
C220 CKO.01
DSPROMRST
R251 0
R255 OPEN_R
R256 10K
R254 10K
WR
R253 10K
TR201
KRA102S

IC209
CY7C1049CV
C242 100P
C243 CKO.01
R263 10K
R264 10K
RD
BANK0
BANK1

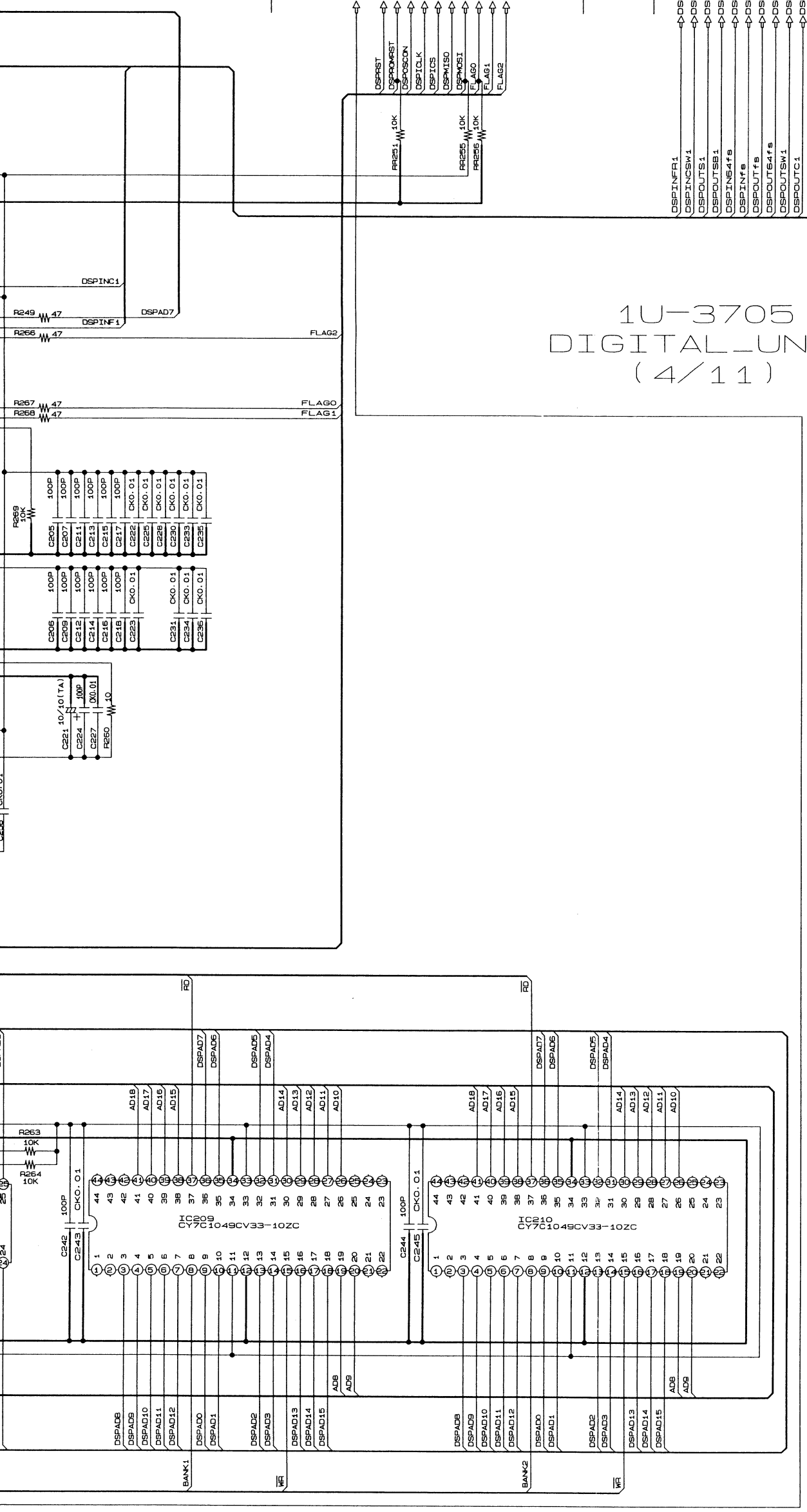
6 7 8 9 10 11

A B C D E F G H

TO SUBCPU
TO 1U-3705(5/11)

TO MAINPLD
TO 1U-3705(3/11)

1U-3705
DIGITAL_UNIT
(4/11)



DSP SECTION(1/1)

SCHEMATIC DIAGRAMS (24/31)

1U-3705 DIGITAL UNIT(4/11)

SCHEMATIC DIAGRAMS (25/31)

1 2 3 4 5 6

TO DIR
TO 1U-3705(2/11)

DLINK_ON DINA DINB DINC DRECA DRECB DRECC DRECINH
DIRAST1 DIRAST2 DIRAST3 INT1 INT2 INT3 DIRDOUT DIRDIN DIRCE DIRCLK DIR1CKST DIR2CKST DIR3CKST

TO M
TO 1U-3

PLDCSMAIN PLDDATA PLDCLK

IC251
M30620FCPGP
(SUB)
128K/10K

Z3DACCS Z2DACCS ZDACRST DACRST DACMS DACMC DACMDI FGAIN

CC253 10/10(TA)
CC254 CK1000P
CC255 CK1000P
CC256 100P
CC257 100P

DRECINH DRECC DRECB DRECA DINC DINB DINA

RE111 10K RE112 10K RE114 10K RE162 33 RE163 33 RE172 33 RE174 33 RE176 33 RE115 10K RE116 10K

HDMI_SENS HDMIT_RST HDMIR_RST SCDT1

P13/D11 P14/D12 P15/INT3 P16/INT4 P17/INT5 P20 P21 P22 P23 P24 P25 P26 P27 VSS P30 VCC P31 P32 P33 P34 P35 P36 P37 P40 P41

VPP
DIR3CKST
DIR2CKST
DIR1CKST
INT3
INT2
INT1
DIRAST3
DIRAST2
DIRAST1

P12/D10 P11/D9 P10/D8 P07/D7 P06/D6 P05/D5 P04/D4 P03/D3 P02/D2 P01/D1 P00/D0

RE121 10K

DSPRST
DSPROMRST
FLAG0
FLAG1
FLAG2
DSPICS
DSPOSCON

P107/AN7 P106/AN6 P105/AN5 P104/AN4 P103/AN3 P102/AN2 P101/AN1 AVSS P100/AN0 VREF AVCC

DSPMISO
DSPMOSI
DSPICLK

RE137 33
RE139 33

P97/SIN4 P96/SOUT4 P95/CLK4

P94/TB4 P93/TB3 P92/SOUT3 P91/SIN3 P90/CLK3 BYTE CNVCS P87 P86 RESET XOUT VSS XIN VCC P85/NMI P84/INT2 P83/INT1 P82/INT0 P81 P80 P77 P76 P75 P74 P73/CTS2

P42 RE113 10K
P43 INT1
P44 RE117 10K
P45 RE118 10K
P46 WP2
P47 WP1
P50/CE
P51 RE119 10K
P52 RE120 10K
P53 RE203 33 POHPRMV1
P54 RE204 33 P1HPRMV1
P55/EPM
P56 ADC-RST
P57 OSR2
P60/CTS0 RE207 33 REQSOMI
P61/CLK0 CLKSIMO
P62/RXD0 SIMO
P63/TXD0 RE210 33 SOMI
P64/CTS1
P65/CLK1
P66/RXD1 RE213 33
P67/TXD1 RE214 33
P70/TXD2 RE238 0
P71/RXD2 RE237 0
P72/CLK2 DIGITALPOWER

RE101 0
S251 OPEN
RE102 0
SDA.
SCL.
S251 S251

DLINK_ON
DIRCE RE141 33
DIRDIN RE142 33
DIRDOUT
DIRCLK RE144 33

ADOVERL

RE153 OPEN_R
X251 FCX-03(12MHz)
CC251 10P
CC252 10P

RE150 33 RE164 33 RE166 33
RE151 33 RE146 33

PLDCSMAIN PLDDATA PLDCLK
VSEL2 VSEL3 ACKSIMO SLBBDOWN VSEL4 VSEL0 VSEL1

RE155 10K

TR254
KRC104S

BDOWNSUB
ACKSIMO

TO DSP
TO 1U-3705(4/11)

VPP DSPRST DSPROMRST DSPOSCON DSPICLK DSPICS DSPMISO DSPMOSI FLAG0 FLAG1 FLAG2

TO DAC/ADC
TO 1U-3705(6/11)

ADC-RST OSR2 ADOVERL
DACRST DACMS DACMC DACMDI FGAIN
ZDACRST Z2DACCS Z3DACCS

VSEL4 VSEL3 VSEL2 VSEL1

6 7 8 9 10 11

A B C D E F G H

TO MAINPLD
TO 1U-3705(3/11)

PLDCSMAIN
PLDDATA
PLDCLK
DGND

TO XMRADIO
TO 1U-3705(1/11)

RXDMIXMO
TXDMOXMI
REQXM
XMCOMMAND
XMRESET
MGND
XMSCPU3.3V

TO 1U-3700-1
MAIN CPU UNIT

CW976
7P-SOCKET(9120)

1U-3705
DIGITAL_UNIT
(5/11)

HDMI_SENS
HDMIT_RST
HDMIR_RST
SCDT1
INT1
WP2
WP1
P0HPRMV1
P1HPRMV1
ADC-RST
OSR2
SDA.
SCL.
ADOVERL

IC254
TC74VHCT08FT

IC252
SN74LV08APW-EL2

11P-FFC(9610)
CX252
SCLK
BUSY
DSPBOOT
CE/AVMUTE
EPM/AUTH
CNVSS
GND
RXD
TXD
3.3V
SUBRESET

TR253
KRC104S
RSTSUB

ACKSUB
ACKSIMO
MOSI
SIMO
CLKMO
CLKSIMO
REQSOMI
REQSOMIm
SOMI
SOMIm

CW101
10P-SOCKET(9120)
CLK
SI
ACK
SUB CPU RST
SUB B.DOWN
REQ
SO
DIGITALPOWER
SCPU5V
MGND

TO 1U-3700-1
MAIN CPU UNIT

VSEL4
VSEL3
VSEL2
VSEL1
VSEL0
EDSCL
EDSDA

TO BUSSW
TO 1U-3705(11/11)

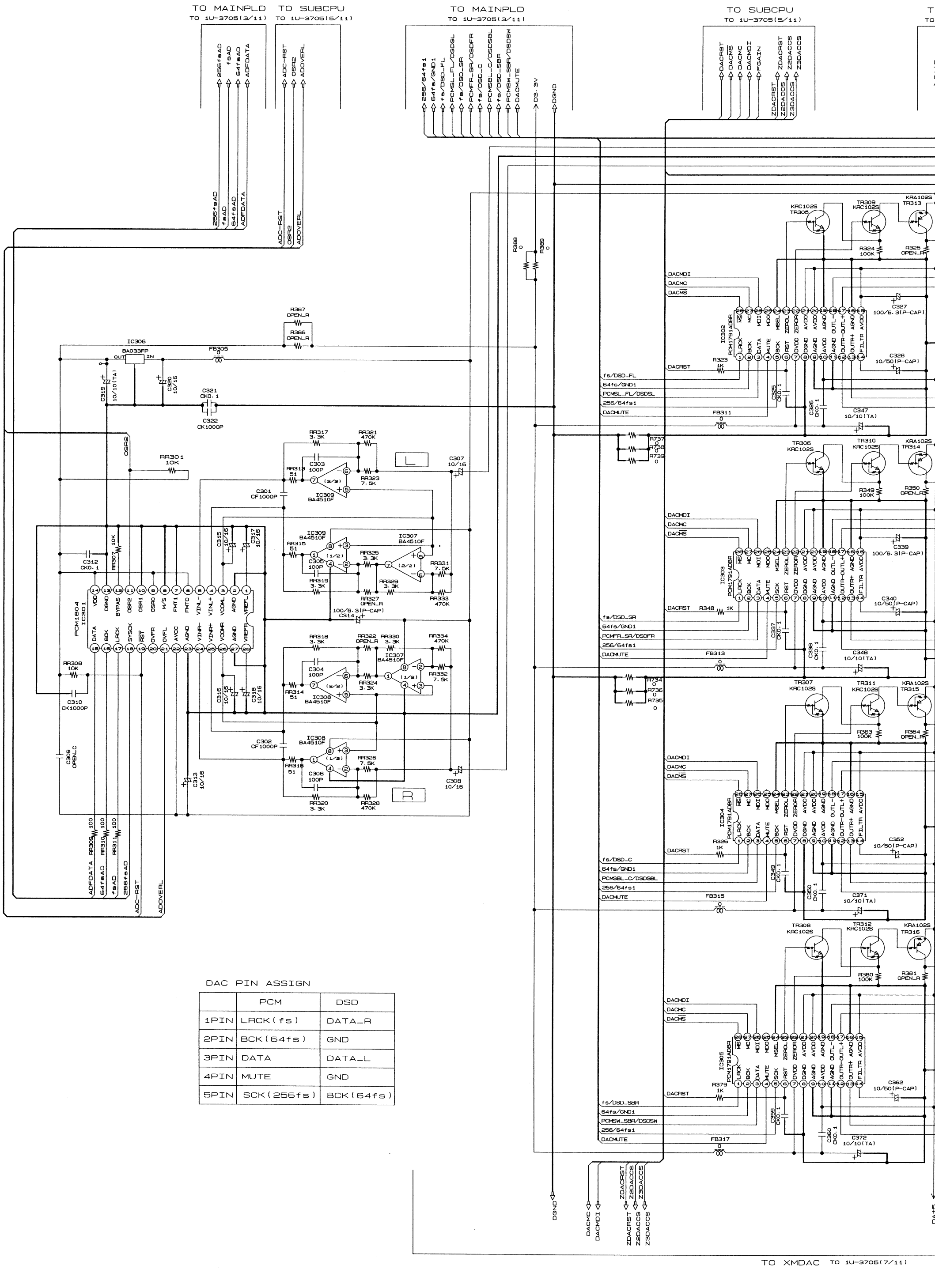
SUB CPU SECTION(1/1)

SCHEMATIC DIAGRAMS (25/31)

1U-3705 DIGITAL UNIT(5/11)

SCHEMATIC DIAGRAMS (26/31)

1 2 3 4 5 6



DAC PIN ASSIGN

	PCM	DSD
1PIN	LRCK(fs)	DATA_R
2PIN	BCK(64fs)	GND
3PIN	DATA	DATA_L
4PIN	MUTE	GND
5PIN	SCK(256fs)	BCK(64fs)

6 7 8 9 10 11

A B C D E F G H

TO MAINPLD
TO 1U-3705(3/11)

1U-3705 DIGITAL_UNIT (6/11)

DA+5
D/AGND
R741 0
R742 0

TR309 KRC102S
KRA102S TR313
R324 100K
R325 OPEN_R
C327 100/6.3(P-CAP)
C328 10/50(P-CAP)
C347 10/10(TA)
TR310 KRC102S
KRA102S TR314
R349 100K
R350 OPEN_R
C339 100/6.3(P-CAP)
C340 10/50(P-CAP)
C348 10/10(TA)
TR311 KRC102S
KRA102S TR315
R363 100K
R364 OPEN_R
C352 10/50(P-CAP)
C371 10/10(TA)
TR312 KRC102S
KRA102S TR316
R380 100K
R381 OPEN_R
C362 10/50(P-CAP)
C372 10/10(TA)
DOUTR-OUTL+ DOUTR+ AGND FILTR AVDD

D304 KDS184
R307 4.7K
R315 1K
C329 CF1500P
R309 1.3K
R301 1.8K
R303 1.8K
R311 1.3K
C333 CF390P
R313 100
IC310 SA5532ADR (1/2)
R305 4.7K
C331 CF390P
R306 3.3K
C332 CF560P
R304 1.8K
R312 680
R302 1.8K
C330 CF1800P
R310 680
C334 CF560P
R308 3.3K
IC310 SA5532ADR (2/2)
R315 100K
R314 100
R318 1.1K
R317 OPEN_R
R319 33K
R320 3.3K
R321 100
IC314 SA5532ADR (2/2)
KTC2875B TR317
C335 10/25(P-CAP)
C336 10/25(P-CAP)
C735 CK1000P
SL
FL

D305 KDS184
R333 3.3K
R347 1K
C341 CF1800P
R335 680
R327 1.8K
R329 1.8K
R337 680
C345 CF560P
IC311 SA5532ADR (1/2)
R340 100
R341 100K
R331 3.3K
C343 CF560P
IC314 SA5532ADR (1/2)
R342 OPEN_R
R343 1.1K
R345
R344 33K
R346 100
3.3K
TR318 KTC2875B
FR

D306 KDS184
R355 3.3K
R384 1K
C353 CF1800P
R357 680
R351 1.8K
R353 1.8K
R359 680
C357 CF560P
IC312 SA5532ADR (1/2)
R361 100
C728 CK1000P
C730 CK0.01
C731 CK0.1
R383 3.3K
C355 CF560P
SBL

D307 KDS184
R385 1K
R371 15K
C363 CF1500P
R373 1.6K
R365 1.8K
R367 1.8K
R375 1.6K
C367 CF150P
IC313 SA5532ADR (1/2)
R377 100
C732 CK1000P
C733 CK0.01
C734 CK0.1
R369 15K
C365 CF150P
SW

R322 47K
FB321 0
FB322 0
DACMUTE
FGAIN
TR304 KRA102S
TR303 KRC102S
TR319 KRC102S
KRA102S TR320

R354 1.8K
R352 1.8K
C354 CF1800P
R360 680
R358 680
C358 CF560P
R356 3.3K
IC312 SA5532ADR (2/2)
R362 100
C356 CF560P
R370 3K
C
R368 1.8K
R366 1.8K
C364 CF1800P
R376 680
R374 680
C368 CF560P
R372 3.3K
IC313 SA5532ADR (2/2)
R378 100
SBR

TO 1U-3700-1 MAIN CPU UNIT
A+15V (13)
A+15V (12)
A-15V (11)
A-15V (10)
ADGND (9)
ADINL (8)
ADGND (7)
ADINR (6)
ADGND (5)
DASLFLMUTE (4)
DAFRSRMUTE (3)
DASBLCMUTE (2)
DASBRSWMUTE (1)
13P-SOCKET(9120)
CW137

TO 1U-3700-1 MAIN CPU UNIT
DASL (15)
DA-AGND (14)
DAFL (13)
DA-AGND (12)
DAFR (11)
DA-AGND (10)
DASR (9)
DA-AGND (8)
DASBL (7)
DA-AGND (6)
DAC (5)
DA-AGND (4)
DASW (3)
DA-AGND (2)
DASBR (1)
15P-SOCKET(9120)
CW159

DA+5 DACGND DA+15 DA-15 DAGND

TO 1U-3705(7/11)

MAIN DAC SECTION(1/1)

SCHEMATIC DIAGRAMS (26/31)

1U-3705 DIGITAL UNIT(6/11)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)

TO MAINDAC
TO 1U-3705(3/11)

DGND
256fsZ2
64fsZ2
DATAZ2
fsZ2
DACMUTEZ2
256fsZ3
64fsZ3
DATAZ3
fsZ3
DACMUTEZ3
DACMC
DACMDI
ZDACRST
Z2DACCS
Z3DACCS

XM(ZONE2) DAC

TR351 KRC102S
TR353 KRA102S
TR357 KRC102S
TR359 KRA102S
DACMUTEZ2

D351 KDS184
RR383 1K
RR365 5.1K
RR359 OPEN_R
CC365 CK3300P
CC373 470P
RR351 4.7K
RR352 4.7K
RR366 200
RR367 200
IC353 BA15218F (1/2)
RR377 100
Z2L
RR361 5.1K
CC369 470P
RR362 5.1K
CC370 470P
RR353 4.7K
RR354 4.7K
RR368 200
RR369 200
IC353 BA15218F (2/2)
Z2R
CC377 OPEN
RR378 100
CC366 CK3300P
CC374 470P
RR375 5.1K

IC351 AK4385ET
MCLK BICK SDTI LRCK PDN CSN CCLK CDTI
DZFL DZFR VDD VSS AOUTL+ AOUTL- AOUTR+ AOUTR-
CC355 1/50(P-CAP)

USA/CANADA MODEL ON

TR352 OPEN
TR354 OPEN
TR355 OPEN
TR356 OPEN
DACMUTEZ3

D352 OPEN
RR384 OPEN
RR370 OPEN
RR360 OPEN
CC352 OPEN
CC357 OPEN
RR355 OPEN
RR356 OPEN
RR371 OPEN
RR372 OPEN
IC354 OPEN (1/2)
RR379 OPEN
Z3L
RR363 OPEN
CC354 OPEN
RR364 OPEN
CC356 OPEN
RR357 OPEN
RR358 OPEN
RR373 OPEN
RR374 OPEN
IC354 OPEN (2/2)
Z3R
RR380 OPEN
CC353 OPEN
CC358 OPEN
RR375 OPEN

IC352 OPEN
CC351 OPEN

6 7 8 9 10 11

A B C D E F G H

TO MAINDAC
TO 1U-3705(3/11)

1U-3705
DIGITAL_UNIT
(7/11)

) DAC

DA+5
DA+15
DA-15
DAGND
DACGND

RR303
RR302
0

D351
KDS184
RR383
1K

CC373
70P
RR377
100
IC353
BA15218F
Z2L

IC353
BA15218F
Z2R
CC377
OPEN.
CC380
OPEN.
RR378
100
CC374
470P

ADA MODEL ONLY

DAZ3MUTE
DAZ2MUTE
DAZ2L
DAZ2R
DAZ3L
DAZ3R

CW113
11P-SOCKET(9120)

TO 1U-3700-1
MAIN CPU UNIT

D352
OPEN
RR384
OPEN
CC357
PEN
RR379
OPEN
IC354
OPEN
Z3L

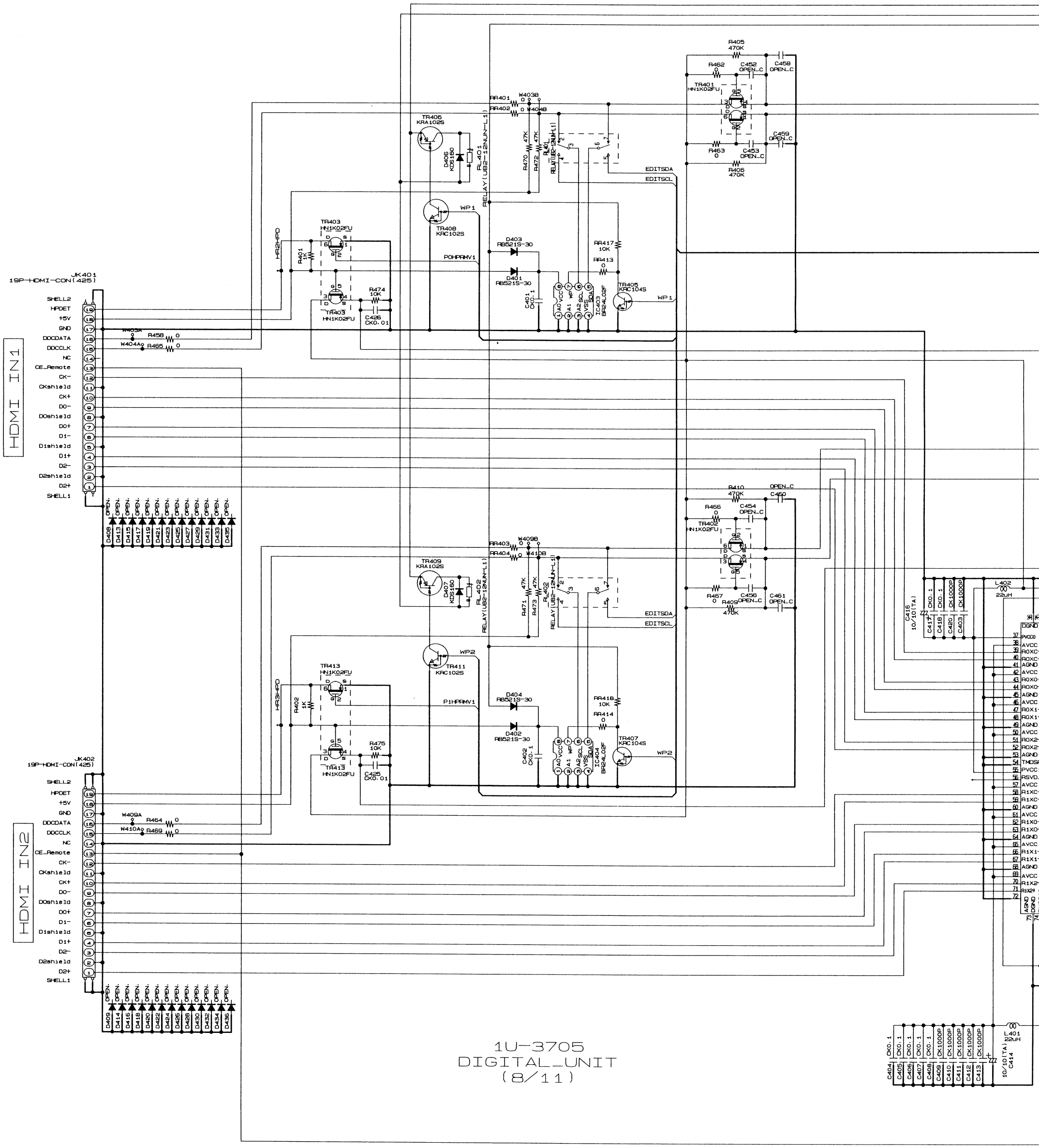
IC354
OPEN
Z3R
RR380
OPEN
CC358
OPEN

XM(ZONE2/3 DAC) SECTION(1/1)

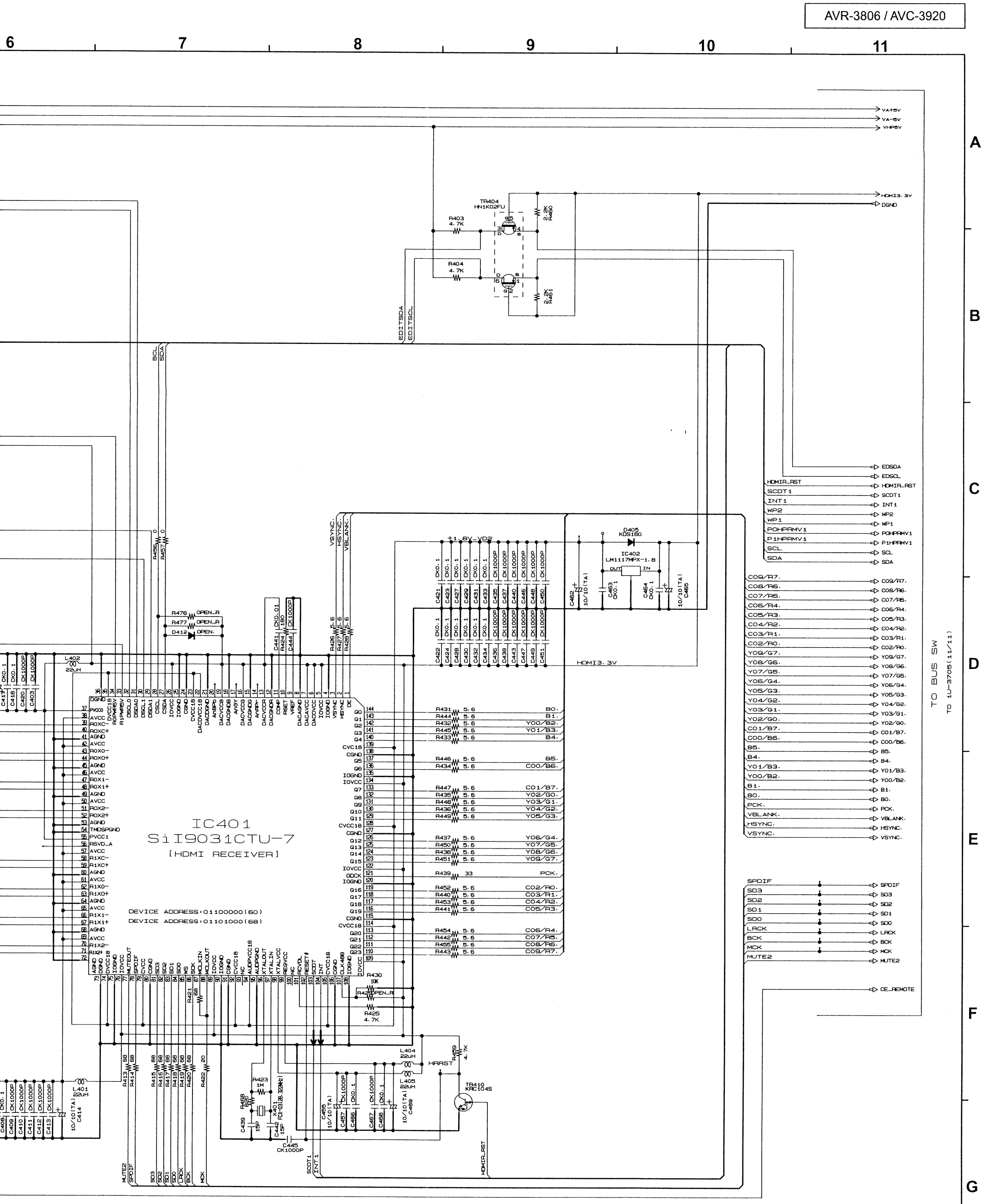
SCHEMATIC DIAGRAMS (27/31)
1U-3705 DIGITAL UNIT(7/11)

SCHEMATIC DIAGRAMS (28/31)

1 2 3 4 5 6



1U-3705
DIGITAL_UNIT
(8/11)



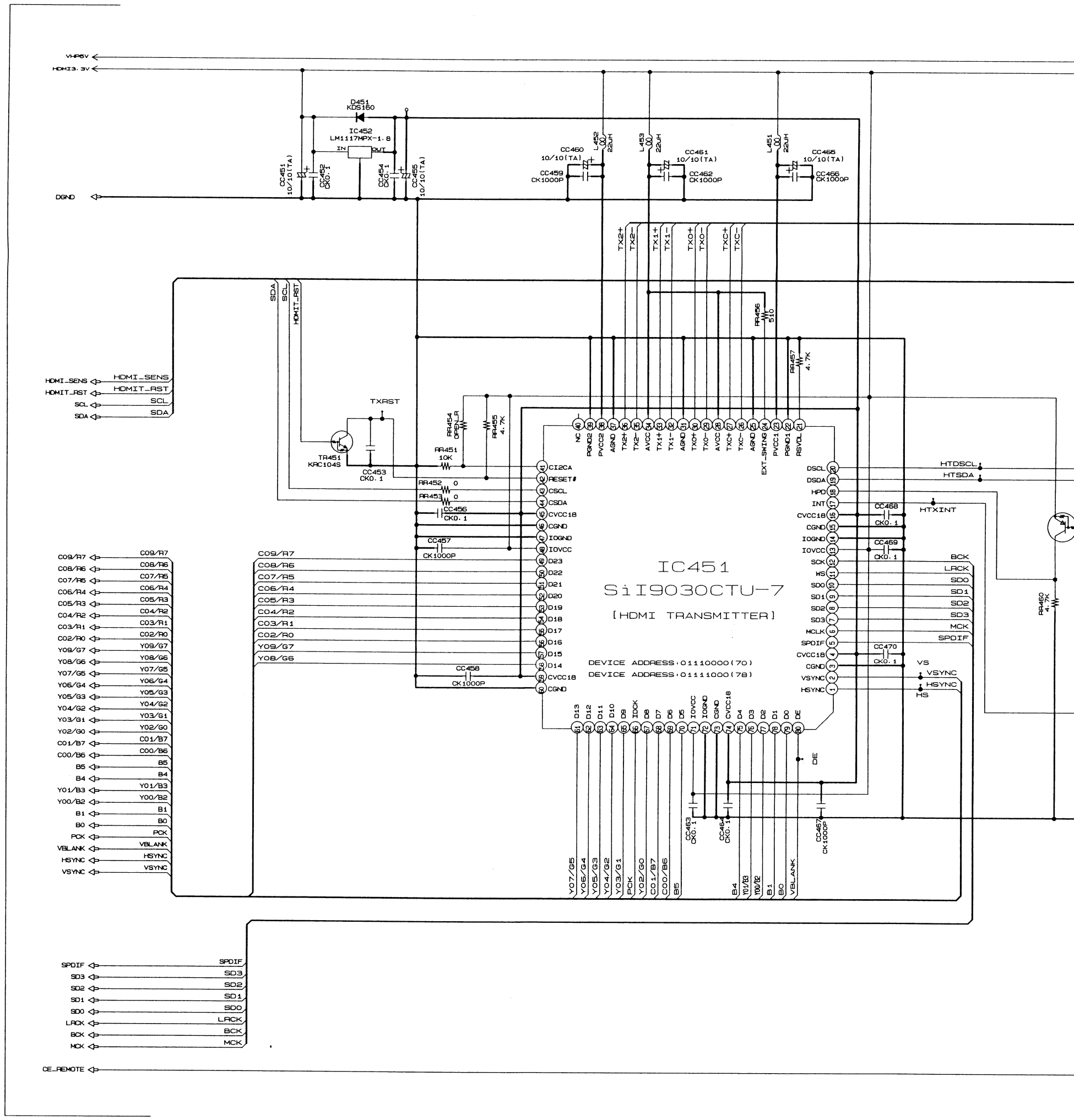
HDMI IN SECTION(1/1)

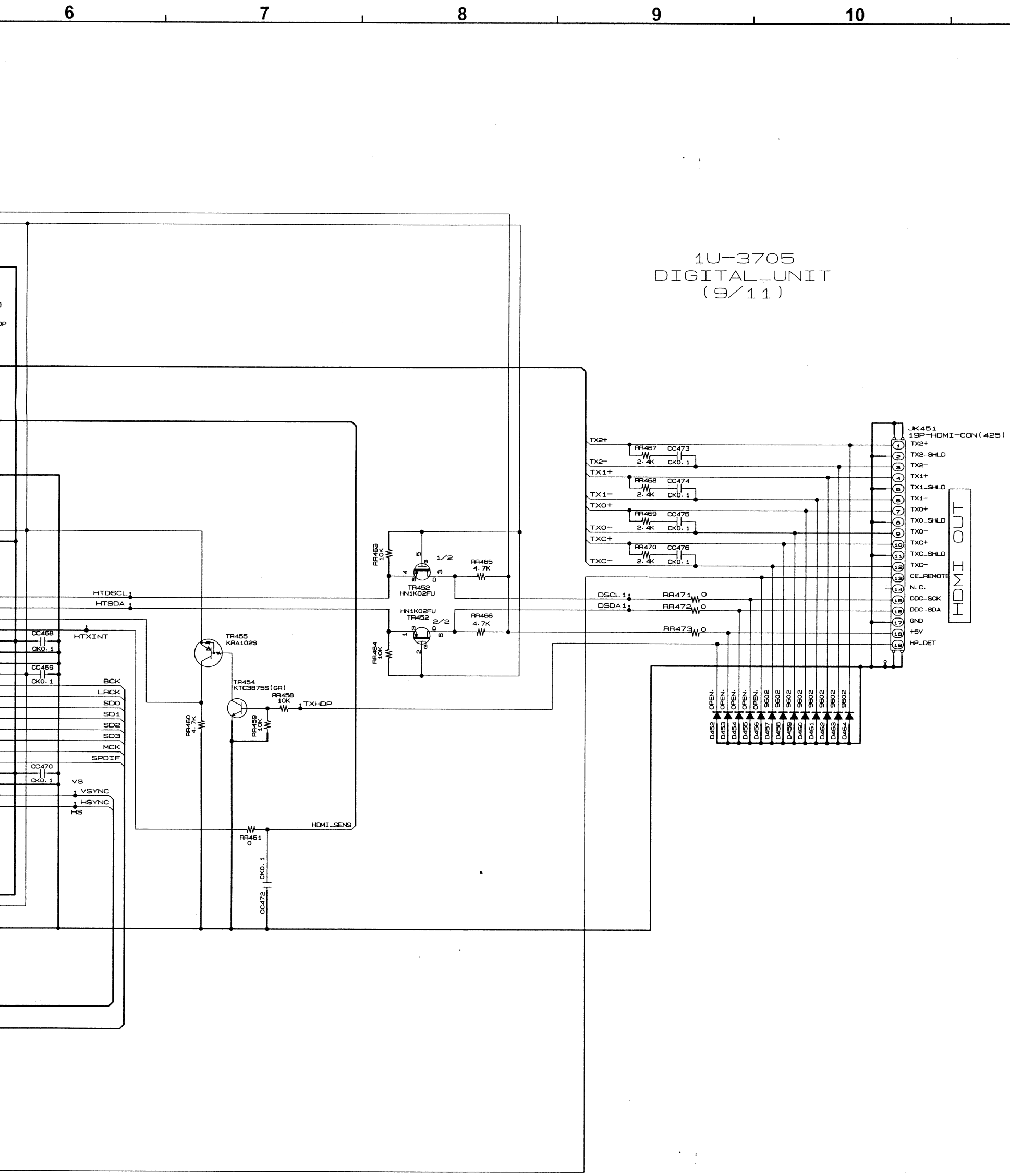
SCHEMATIC DIAGRAMS (28/31)

1U-3705 DIGITAL UNIT(8/11)

SCHEMATIC DIAGRAMS (29/31)

1 2 3 4 5 6





HDMI OUT SECTION(1/1)

SCHEMATIC DIAGRAMS (29/31)

1U-3705 DIGITAL UNIT(9/11)

SCHEMATIC DIAGRAMS (30/31)

1 2 3 4 5 6

TO BUS SW

TO 1U-3705(11/11)

VA+5V VA-5V HDMI3.3V DGND

TO 3702-1 P.SUPPLY UNIT TO SUPPLY

CY043 4P-PHs (SMT)

HDMI3.3V
HDMI3.3V
HDMIGND
HDMIGND

RA601 0
RA602 0
RA603 0

IC604 PQ018EZ01ZP
VIN VOUT ON/OFF NC GND
C643 100/6.3
C644 CK1000P
C646 CK1000P
C645 10/10(TA)

IC605 BA25BC0FP-E2
IN OUT
C647 CK1000P
C648 CK1000P
C649 10/10(TA)

IC607 PQ018EZ01ZP
VIN VOUT ON/OFF NC GND
C654 CK1000P
C655 CK1000P
C655 10/10(TA)

IC606 BA033FP
IN OUT
C653 100/6.3
C650 CK1000P
C651 CK1000P
C652 10/10(TA)

IC608 BA25BC0FP-E2
IN OUT
C657 CK1000P
C658 CK1000P
C659 10/10(TA)

R601 0

C619 CK0.1
C614 10/16(MVB)
C621 CK0.01
C609 CK0.1
C617 10/16(MVB)
C612 CK0.1
C618 10/16(MVB)
C613 CK0.1
R602 2.7K
R644 2.7K
C610 CK0.1
C615 10/16(MVB)
C622 CK0.01
C620 CK0.1

C611 CK0.1
R645 OPEN_R

IC601
ADV7403BSTZ-110
[VIDEO DECODER]

AGND(FB) SOG AIN7 AIN1 AIN8 AIN2 AIN9 AIN3 NC AGND CAPY1 CAPY2 AVDD REFOUT CML AGND BIAS CAPC1 CAPC2 AGND AIN10 AIN4 AIN11 AIN5 AIN12

VDIY VDICR VDICV VDICB VDIC

C624 C525 C626 C627 C642 CK0.1

AIN6 SDY RESET DE_IN ALSB SDA SCLK P40 P39 VS_IN HS_IN P38 P37 DGND DVDD P19 P18 P17 P16 P35 P35 P34 FIELD/OE VS P33

R604 5.6K
R607 4.7K
C634 CK0.1 CK1000P CK0.01
C607 OPEN_C
TR601 KRC104S
C628 C629 C608 OPEN_C
R605 100 SDA
R606 100 SCL
VDRST.

C638 CK0.1
C639 6P
C640 6P
X601 X-TAL(28.63636MHz)
R610 1M
R635 0
C532 CP0.101
C533 CP0.082
R608 27K
C630 CK0.1
R603 1.8K

VDOC0 VDOC1 VDOC2R0 VDOC3R1 LLC1 VDOB0 VDOB1 VDOB2 VDOB3 VDOB4 VDOC4R2 VDOC5R3 VDOC6R4
AGND AGND PVDD PVDD ELPF P20 P0 P1 P2 P3 DGND DVDD XTAL XTAL1 LLC1 DCLK-IN P21 P22 P23 P24 P25 P26 P4 P5 P6

P7 P27 P8 P9 P10 P11 SDA2 DVDDIO DGND SCLK2 SFL/SYNC_OUT P28 P29 DVDD DGND P12 P13 P14 P15 DVDDIO DGND CS/HS P30(INT) P31 P32

VDOC7R5 VDOB5 VDOC8R6 VDOC9R7 VDOY0 VDOY1 SDA2 DVDDIO DGND SCLK2 SFL VDOB6 VDOB7 DVDD DGND VDOY2G0 VDOY3G1 VDOY4G2 VDOY5G3 DVDDIO DGND VDOHS

C601 CK0.1
C603 CK0.1
C605 CK0.1
C606 10/10(TA)
C536 CK0.1

CC605 CK0.1
CC606 CK0.1

RE684 10K
RE685 10K
CC501 120P
CC502 120P
RE686 0
OPEN
IC616
DA NC GND SC VCC
RE687 0

VDOY0 RA655 33
VDOY1 RA656 33
VDOY2G0 RA657 33
VDOY3G1 RA658 33
VDOY4G2 RA659 33
VDOY5G3 RA660 33
VDOY6G4 RA661 33
VDOY7G5 RA662 33
VDOY8G6 RA663 33
VDOY9G7 RA664 33
LLC1 RA665 33
VDOHS RA666 OPEN_R
VDOVS RA667 OPEN_R
SFL RA669 33

L604 0

Y
RE631 100
RE628 360
IC614 LT1399CS [1/3]
CC628 100/6.3
1V
RE644 10K
RE647 75
560 RE635 RE636 OPEN_R
RE641 2K

CB
RE632 100
RE629 360
IC614 LT1399CS [2/3]
CC629 100/6.3
RE645 10K
RE648 75
560 RE637 RE638 OPEN_R
RE642 2K

CR
RE633 100
RE630 360
RE634 1K
IC614 LT1399CS [3/3]
CC630 100/6.3
RE646 10K
RE649 75
560 RE639 RE640 OPEN_R
RE643 2K

IC614 LT1399CS
V- GND2 GND1 V+
CC624 CC626 100/6.3(P-CAP)
CC625 CK0.01
CC627 CK0.01

Y TK1
RE604 100
300 RE601

C
RE605 100
300 RE602

CVBS TK1
RE606 100
300 RE603

VSDA MGND VA+5V VA-5V DOWN-Y VGND DOWN-CB VGND DOWN-CR VGND VEOPY VGND VEOCB VGND VEOCR VGND MGND VSCL

CY181 18P-FFCs(9610)

TO COMPONENT

1U-3705
DIGITAL_UNIT
(10/11)

6 7 8 9 10 11

A B C D E F G H

TO 3700-1
MAIN CPU UNIT

CY081
8P-ZH(SMD)

SDA GND SCL GND +5V VDREST VEREST TEREST

TO BUS SW
TO 1U-3705(11/11)

IC610
ADV7320
[VIDEO ENCODER]

DEVICE ADDRESS:1101010*(D4/D5)

IC611
BH7868FS

V. CONVERT SECTION(1/1)

SCHEMATIC DIAGRAMS (30/31)

1U-3705 DIGITAL UNIT(10/11)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)

MUTE2 MCK BCK LRCK SDO SD1 SD2 SD3 SPDIF TDODMAIN TMS TDOHDMI TCK

VA+5V
VA-5V
VHP5V
HDMI3.3V
DGND

R701 0
R702 0
R703 0

TO HDMI IN
TO 1U-3705(8/11)

EDSDA EDSCL HDMIR_RST SCDT1 INT1 WP2 WP1 POHPRMV1 P1HPRMV1 SCL SDA

C09/R7. C08/R6. C07/R5. C06/R4. C05/R3. C04/R2. C03/R1. C02/R0. Y09/G7. Y08/G6. Y07/G5. Y06/G4. Y05/G3. Y04/G2. Y03/G1. Y02/G0. C01/B7. C00/B6. B5. B4. Y01/B3. Y00/B2. B1. B0. PCK. VBLANK. HSYNC. VSYNC.

SPDIF SD3 SD2 SD1 SD0 LRCK BCK MCK MUTE2

CE_REMOTE

TDOBUS1
R743 100
R711 56
R712 56
R713 56
R714 56
R715 56
R716 56
R717 56
R718 56
TMS
R744 100

C717 CK1000P
C718 CK0.1
C719 10/10(TA)
C723 CK1000P
C724 CK0.1

IC701
LC4064V-75TN100C

PCK R704 56
C01/B7 R705 56
C00/B6 R706 56
B5 R707 56
B4 R708 56
B1 R709 56
B0 R710 56

VSEL2
VSEL4
VSEL3
VSEL0
VSEL1

VDOB6. VDOB7. VDOC8R6. VDOC9R7. VDOC7R5. VDOB5. VDOC0. VDOC1. VDOC2R0. VDOC3R1. VDOB0. VDOB1. VDOB4. VDOC4R2.

VSYNC. HSYNC. VBLANK. Y00/B2 Y01/B3 Y02/G0 Y03/G1 Y04/G2 Y05/G3 Y06/G4 Y07/G5 Y08/G6 Y09/G7

C720 CK1000P
C721 CK1000P
C722 CK1000P
R745 100

TDOMAIN
TCK

LLC1. VDOC6R4. VDOC5R3.

VDOC9R7. VDOC8R6. VDOC7R5. VDOC6R4. VDOC5R3. VDOC4R2. VDOC3R1. VDOC2R0. VDOC1. VDOC0. VDOB7. VDOB6. VDOB5. VDOB4. VDOB3. VDOB2. VDOB1. VDOB0. VDOY9G7. VDOY8G6. VDOY7G5. VDOY6G4. VDOY5G3. VDOY4G2. VDOY3G1. VDOY2G0. VDOY1. VDOY0. VDOVS. VDOHS. LLC1. VDODE.

VA+5V VA-5V HDMI3.3V DGND

TO CONVERT
TO 1U-3705(10/11)

6 7 8 9 10 11

A B C D E F G H

TO SUBCPU
TO 1U-3705(5/11)

VSEL4 VSEL3 VSEL2 VSEL1 VSEL0
P1HPRMV1 P0HPRMV1 WP1 WP2 INT1 SCDT1 HDMIR_RST EDSCL EDSDA
HDMI_SENS HDMIT_RST
SDA SCL

VHP5V
HDMI3.3V
DGND

IC702
LC4064V-75TN100C

C723 CK1000P
C724 CK0.1
C726 CK1000P
C727 CK1000P
C728 CK1000P

R746 100 TDOHDMI
R747 100 TMS
R748 100 TCK

TDOBUS1

R722 R721 R720 R724 R723 R733 R731 R730 R729 R728 R727 R726 R725 56

VSEL4
VSEL3
VSEL0
VSEL1
VSEL2

VSYNC. HSYNC. VBLANK. Y00/B2. Y01/B3. Y02/G0. Y03/G1. Y04/G2. Y05/G3. Y06/G4. Y07/G5. Y08/G6. Y09/G7.

HDMI_SENS
HDMIT_RST
SCL
SDA

C09/R7 C08/R6 C07/R5 C06/R4 C05/R3 C04/R2 C03/R1 C02/R0 Y09/G7 Y08/G6 Y07/G5 Y06/G4 Y05/G3 Y04/G2 Y03/G1 Y02/G0 C01/B7 C00/B6 B5 B4 Y01/B3 Y00/B2 B1 B0 PCK VBLANK HSYNC VSYNC

SPDIF SD3 SD2 SD1 SD0 LRCK BCK MCK

CE_REMOTE

TO HDMI OUT
TO 1U-3705(9/11)

1U-3705
DIGITAL_UNIT
(11/11)

BUS SW SECTION(1/1)

SCHEMATIC DIAGRAMS (31/31)
1U-3705 DIGITAL UNIT(11/11)